# Author Index for Volume 13


Andres, Giuseppe, Jan Brentjens, Romesh Kohli, Ronald Anthone, Sidney Anthone, Tadla Baliah, Mario Montes, Basab K. Mookerjee, Anthony Prezyna, Marion Sepulveda, Rocco Venuto, and Charles Elwood. Histology of human tubulo-interstitial nephritis associated with antibodies to renal basement membranes, 480

Angervall, Lennart, *See* BENGTSSON, JOHANSSON, and ANGERVALL, 107

Anthone, Ronald, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480

Anthone, Sidney, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480

Atuk, Nuzhet O., *See* BOLTON and ATUK, 263

Baer, Philip G., and Giuseppe Bianchi. Renal micropuncture study of normotensive and Milan hypertensive rats before and after development of hypertension, 450

Baert, Luc. Hereditary polycystic kidney disease (adult form): A microdissection study of two cases at an early stage of the disease, 519

Baker, Thomas, *See* RODMAN and BAKER, 189

Baliah, Tadla, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480

Baumeler, Hans-Rudolf, *See* DUBACH, ROSNER, LEVY, BAUMELER, MÜLLER, PEYER, EHRENSPERGER, and ETTLIN, 41

Beilin, Lawrence J., *See* THOMAS, LEDINGHAM, BEILIN, STOTT, and YEATES, 513

Bengtsson, Ulla, Sonny Johansson, and Lennart Andervall. Malignancies of the urinary tract and their relation to analgesic abuse, 107

Bernard, David B., *See* DONOHOE, VENKATACHALAM, BERNARD, and LEVINSKY, 208

Bhan Atul K., *See* PETTERSSON, BHAN, SCHNEEBERGER, COLLINS, COLVIN, and MCCLUSKEY, 245

Bianchi, Giuseppe, *See* BAER AND BIANCHI, 450

Bolton, W. Kline, and Nuzhet O. Atuk. Study of chemical sympathectomy in endotoxin-induced lethality and fibrin deposition, 263

Bommer, Jürgen, *See* RITZ, PRAGER, KREMPIEN, BOMMER, MALLUCHE, and SCHMIDT-GAYK, 316

Bourgoignie, Jacques J., *See* EPSTEIN, BRICKER, and BOURGOIGNIE, 152

Brentjens, Jan, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480

Bricker, Neal S., *See* EPSTEIN, BRICKER, and BOURGOIGNIE, 152

Brown, Edwina A., Alan S. Kliger, John Goffinet, and Fredric O. Finkelstein. Effect of hypertonic dialysate and vasodilators on peritoneal dialysis clearances in the rat, 271

Brunner, Hans R., *See* JAEGER, FERGUSON, BRUNNER, KIRCHERTZ, and GAVRAS, 289

Burry, Alastair. Pathology of analgesic nephropathy: Australian experience, 34

Cannon, Paul J., *See* CASE, CASARELLA, LARAGH, FOWLER, and CANNON, 236

Carpenter, Charles B., *See* ZAGER and CARPENTER, 505

Casarella, William J., *See* CASE, CASARELLA, LARAGH, FOWLER, and CANNON, 236

Case, David B., William J. Casarella, John H. Laragh, Deborah L. Fowler, and Paul J. Cannon. Renal cortical blood flow and angiography in low- and normal-renin essential hypertension, 236

Coe, Fredric L. Hyperuriocosuric calcium oxalate nephrolithiasis, 418

Cohanim, Moussa, *See* YENDT and COHANIM, 397

Cohen, Jerone, *See* MAHURKAR, MEYERS, COHEN, KAMATH, and DUNEA, 306

Collins, A. Bernard, *See* PETTERSSON, BHAN, SCHNEEBERGER, COLLINS, COLVIN, and MCCLUSKEY, 245

Colvin, Robert B., *See* PETTERSSON, BHAN, SCHNEEBERGER, COLLINS, COLVIN, and MCCLUSKEY, 245

De Leon, A.H. *See* NANRA, STUART-TAYLOR, DE LEON, and WHITE, 79

Dickstein, Craig D., *See* FREEMAN, MURPHY, and DICKSTEIN, 129

Doak, Peter B., *See* TEAGUE, DOAK, SIMPSON, RAINER, and HERDSON, 492

Dohi, Kazuhiro, *See* NAKAMOTO, DOHI, FUJIIKE, YURI, SHINODA, and TAKEUCHI, 297

Donohoe, John F., Manjeri A. Venkatachalam, David B. Bernard, and Norman G. Levinsky. Tubular leakage and obstruction after renal ischemia: Structural-functional correlations, 208

Dray, Fernand, *See* DUNN, LIARD, and DRAY, 136

Droz, Dominique, *See* GUBLER, LENOIR, GRÜNFELD, ULMANN, DROZ, and HABIB, 223

Dubach, Ulrich C., Bernard Rosner, Paul S. Levy, Hans-Rudolf Baumeler, Anton Müller, Anton Peyer, Thomas Ehrensperger, and Christoph Ettlin. Epidemiological study in Switzerland, 41

Dunea, George, *See* MAHURKAR, MEYERS, COHEN, KAMATH, and DUNEA, 306

Dunn, Michael J., Jean Francois Liard, and Fernand Dray. Basal and stimulated rates of renal secretion and excretion of prostaglandins $E_2$, $F_\alpha$, and 13,14-dihydro-15-keto $F_\alpha$ in the dog, 136

# Author Index for Volume 13


Andres, Giuseppe, Jan Brentjens, Romesh Kohli, Ronald Anthone, Sidney Anthone, Tadla Baliah, Mario Montes, Basab K. Mookerjee, Anthony Prezyna, Marion Sepulveda, Rocco Venuto, and Charles Elwood. Histology of human tubulo-interstitial nephritis associated with antibodies to renal basement membranes, 480

Angervall, Lennart, *See* BENGTSSON, JOHANSSON, and ANGERVALL, 107

Anthone, Ronald, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480

Anthone, Sidney, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480

Atuk, Nuzhet O., *See* BOLTON and ATUK, 263

Baer, Philip G., and Giuseppe Bianchi. Renal micropuncture study of normotensive and Milan hypertensive rats before and after development of hypertension, 450

Baert, Luc. Hereditary polycystic kidney disease (adult form): A microdissection study of two cases at an early stage of the disease, 519

Baker, Thomas, *See* RODMAN and BAKER, 189

Baliah, Tadla, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480

Baumeler, Hans-Rudolf, *See* DUBACH, ROSNER, LEVY, BAUMELER, MÜLLER, PEYER, EHRENSPERGER, and ETTLIN, 41

Beilin, Lawrence J., *See* THOMAS, LEDINGHAM, BEILIN, STOTT, and YEATES, 513

Bengtsson, Ulla, Sonny Johansson, and Lennart Andervall. Malignancies of the urinary tract and their relation to analgesic abuse, 107

Bernard, David B., *See* DONOHOE, VENKATACHALAM, BERNARD, and LEVINSKY, 208

Bhan Atul K., *See* PETTERSSON, BHAN, SCHNEEBERGER, COLLINS, COLVIN, and MCCLUSKEY, 245

Bianchi, Giuseppe, *See* BAER AND BIANCHI, 450

Bolton, W. Kline, and Nuzhet O. Atuk. Study of chemical sympathectomy in endotoxin-induced lethality and fibrin deposition, 263

Bommer, Jürgen, *See* RITZ, PRAGER, KREMPIEN, BOMMER, MALLUCHE, and SCHMIDT-GAYK, 316

Bourgoignie, Jacques J., *See* EPSTEIN, BRICKER, and BOURGOIGNIE, 152

Brentjens, Jan, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480

Bricker, Neal S., *See* EPSTEIN, BRICKER, and BOURGOIGNIE, 152

Brown, Edwina A., Alan S. Kliger, John Goffinet, and Fredric O. Finkelstein. Effect of hypertonic dialysate and vasodilators on peritoneal dialysis clearances in the rat, 271

Brunner, Hans R., *See* JAEGER, FERGUSON, BRUNNER, KIRCHERTZ, and GAVRAS, 289

Burry, Alastair. Pathology of analgesic nephropathy: Australian experience, 34

Cannon, Paul J., *See* CASE, CASARELLA, LARAGH, FOWLER, and CANNON, 236

Carpenter, Charles B., *See* ZAGER and CARPENTER, 505

Casarella, William J., *See* CASE, CASARELLA, LARAGH, FOWLER, and CANNON, 236

Case, David B., William J. Casarella, John H. Laragh, Deborah L. Fowler, and Paul J. Cannon. Renal cortical blood flow and angiography in low- and normal-renin essential hypertension, 236

Coe, Fredric L. Hyperuriocosuric calcium oxalate nephrolithiasis, 418

Cohanim, Moussa, *See* YENDT and COHANIM, 397

Cohen, Jerone, *See* MAHURKAR, MEYERS, COHEN, KAMATH, and DUNEA, 306

Collins, A. Bernard, *See* PETTERSSON, BHAN, SCHNEEBERGER, COLLINS, COLVIN, and MCCLUSKEY, 245

Colvin, Robert B., *See* PETTERSSON, BHAN, SCHNEEBERGER, COLLINS, COLVIN, and MCCLUSKEY, 245

De Leon, A.H. *See* NANRA, STUART-TAYLOR, DE LEON, and WHITE, 79

Dickstein, Craig D., *See* FREEMAN, MURPHY, and DICKSTEIN, 129

Doak, Peter B., *See* TEAGUE, DOAK, SIMPSON, RAINER, and HERDSON, 492

Dohi, Kazuhiro, *See* NAKAMOTO, DOHI, FUJIIKE, YURI, SHINODA, and TAKEUCHI, 297

Donohoe, John F., Manjeri A. Venkatachalam, David B. Bernard, and Norman G. Levinsky. Tubular leakage and obstruction after renal ischemia: Structural-functional correlations, 208

Dray, Fernand, *See* DUNN, LIARD, and DRAY, 136

Droz, Dominique, *See* GUBLER, LENOIR, GRÜNFELD, ULMANN, DROZ, and HABIB, 223

Dubach, Ulrich C., Bernard Rosner, Paul S. Levy, Hans-Rudolf Baumeler, Anton Müller, Anton Peyer, Thomas Ehrensperger, and Christoph Ettlin. Epidemiological study in Switzerland, 41

Dunea, George, *See* MAHURKAR, MEYERS, COHEN, KAMATH, and DUNEA, 306

Dunn, Michael J., Jean Francois Liard, and Fernand Dray. Basal and stimulated rates of renal secretion and excretion of prostaglandins $E_2$, $F_\alpha$, and 13,14-dihydro-15-keto $F_\alpha$ in the dog, 136

Ehrensperger, Thomas, *See* DUBACH, ROSNER, LEVY, BAUMELER, MÜLLER, PEYER, EHRENSPERGER, and ETTLIN, 41
Elwood, Charles, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480
Epstein, Murray, Neal S. Bricker, and Jacques J. Bourgoignie. Presence of natriuretic factor in urine of normal men undergoing water immersion, 152
Ettlin, Christoph, *See* DUBACH, ROSNER, LEVY, BAUMELER, MÜLLER, PEYER, EHRENSPERGER, and ETTLIN, 41
Evans, D.J., *See* SIMPSON, MORAN, EVANS, and PETERS, 467

Ferguson, Roger K., *See* JAEGER, FERGUSON, BRUNNER, KIRCHERTZ, and GAVRAS, 289
Finkelstein, Fredric O., *See* BROWN, KLIGER, GOFFINET, and FINKELSTEIN, 271
Finlayson, Birdwell. Physicochemical aspects of urolithiasis, 344
First, M. Roy, Boon S. Ooi, Wellington Jao, and Victor E. Pollak. Pre-eclampsia with the nephrotic syndrome, 166
Fleisch, Herbert. Inhibitors and promoters of stone formation, 361
Fowler, Deborah, *See* CASE, CASARELLA, LARAGH, FOWLER, and CANNON, 236
Freeman, Richard B., Thomas E. Murphy, Jr., and Craig D. Dickstein. Experimental renal infection: Acute and chronic studies of histology and function, 129
Fujiike, Hugo, *See* NAKAMOTO, DOHI, FUJIIKE, YURI, SHINODA, and TAKEUCHI, 297

Galla, John H., *See* KOTCHEN, GALLA, and LUKE, 201
Gault, M.H., and Douglas R. Wilson. Analgesic nephropathy in Canada: Clinical syndrome, management and outcome, 58
Gavras, Haralambos, *See* JAEGER, FERGUSON, BRUNNER, KIRCHERTZ, and GAVRAS, 289
Gepts, Willy, *See* Sadowski, Potvliege, Gepts, Staroukine, and Lambert, 253
Ghods, Ahad J., *See* NOLPH, POPOVICH, GHODS, and TWARDOWSKI, 117
Gloor, Friedrich J. Changing concepts in pathogenesis and morphology of analgesic nephropathy as seen in Europe, 27
Goffinet, John, *See* BROWN, KLIGER, GOFFINET, FINKELSTEIN, 271
Goldberg, Martin, *See* MURRAY and GOLDBERG, 64
Greenbaum, David S., *See* HOURANI, MAYOR, GREENBAUM, HUGGET, and PATTERSON, 324
Griffith, Donald P. Struvite stones, 372
Grünfeld, Jean-Pierre, *See* GUBLER, LENOIR, GRÜNFELD, ULMANN, DROZ, and HABIB, 223
Gubler, Marie-Claire, Gerard Lenoir, Jean-Pierre Grünfeld, André Ulmann, Dominique Droz, and Renee Habib. Early renal changes in hemizygous and heterozygous patients with Fabry's disease, 223

Habib, Renee, *See* GUBLER, LENOIR, GRÜNFELD, ULMANN, DROZ, and HABIB, 223
Herdson, Peter B., *See* TEAGUE, DOAK, SIMPSON, RAINER, and HERDSON, 492
Hill, John J., *See* WELLING, WELLING, and HILL, 144
Hourani, Michael R., Gilbert H. Mayor, David S. Greenbaum, David O. Hugget, and Maria J. Patterson. Hepatitis B surface antigen in urine of hemodialysis patients, 324
Hugget, David O., *See* HOURANI, MAYOR, GREENBAUM, HUGGET, and PATTERSON, 324

International Study of Kidney Disease in Children. Nephrotic syndrome in children: Prediction of histopathology from clinical and laboratory characteristics at time of diagnosis, 159

Jaeger, Philippe, Roger K. Ferguson, Hans R. Brunner, Ernst J. Kirchertz, and Haralambos Gavras. Mechanism of blood pressure reduction by teprotide (SQ 20881) in rats, 289
Jao, Wellington, *See* FIRST, OOI, JAO, POLLAK, 166
Johansson, Sonny, *See* BENGTSSON, JOHANSSON, and ANGERVALL, 107

Kamath, Radhakrishna V., *See* MAHURKAR, MEYERS, COHEN, KAMATH, and DUNEA, 306
Kincaid-Smith, Priscilla. Introduction to Symposium on Analgesic Nephropathy, 1
Kirchertz, Ernst J., *See* JAEGER, FERGUSON, BRUNNER, KIRCHERTZ, and GAVRAS, 289
Kliger, Alan S., *See* BROWN, KLIGER, GOFFINET, and FINKELSTEIN, 271
Kohli, Romesh, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480
Kokot, Franciszek, *See* PIETREK, KOKOT, and KUSKA, 178
Kopple, Joel D., *See* PENNISI, WANG, and KOPPLE, 472
Kotchen, Theodore A., John H. Galla, and Robert G. Luke. Contribution of chloride to the inhibition of plasma renin by sodium chloride in the rat, 201
Krempien, Burkhard, *See* RITZ, PRAGER, KREMPIEN, BOMMER, MALLUCHE, and SCHMIDT-GAYK, 316
Kuska, Jadwiga, *See* PIETREK, KOKOT, and KUSKA, 178

Lambert, Pierre P., *See* SADOWSKI, POTVLIEGE, GEPTS, STAROUKINE, and LAMBERT, 253
Laragh, John H., *See* CASE, CASARELLA, LARAGH, FOWLER, and CANNON, 236
Ledingham, John G.G., *See* THOMAS, LEDINGHAM, BEILIN, STOTT, and YEATES, 513
Lenoir, Gerard, *See* GUBLER, LENOIR, GRÜNFELD, ULMANN, DROX, and HABIB, 223
Levinsky, Norman G., *See* DONOHOE, VENKATACHALAM, BERNARD, and LEVINSKY, 208
Levy, Paul S., *See* DUBACH, ROSNER, LEVY, BAUMELER, MÜLLER, PEYER, EHRENSPERGER, and ETTLIN, 41
Liard, Jean Francois, *See* DUNN, LIARD, and DRAY, 136
Lindvall, Nils. Radiological changes of renal papillary necrosis, 79
Luke, Robert G., *See* KOTCHEN, GALLA, and LUKE, 201

Malluche, Hartmut Horst, *See* RITZ, PRAGER, KREMPIEN, BOMMER, MALLUCHE, and SCHMIDT-GAYK, 316
Martinez-Maldonado, Manuel, and Susan Opava-Stitzer. Urine concentration and dilution in the rat: Contribution of papillary structures during high rates of urine flow, 194

Mayor, Gilbert H., *See* HOURANI, MAYOR, GREENBAUM, HUGGET, and PATTERSON, 324
McCluskey, Robert T., *See* PETTERSSON, BHAN, SCHNEEBERGER, COLLINS, COLVIN, and MCCLUSKEY, 245
Meyers, Lee, Jr., *See* MAHURKAR, MEYERS, COHEN, KAMATH, and DUNEA, 306
Molland, Elizabeth Ann. Experimental renal papillary necrosis, 5
Montes, Mario, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480
Mookerjee, Basab K., *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480
Moran, J., *See* SIMPSON, MORAN, EVANS, and PETERS, 467
Muller, Anton, *See* DUBACH, ROSNER, LEVY, BAUMELER, MÜLLER, PEYER, EHRENSPERGER, and ETTLIN, 41
Murphy, Thomas E., *See* FREEMAN, MURPHY, and DICKSTEIN, 129
Murray, Robin M. Genesis of analgesic nephropathy in the United Kingdom, 50
Murray, Thomas G., and Martin Goldberg. Analgesic-associated nephrophathy in the U.S.A.: Epidemiologic, clinical and pathogenetic features, 64

Nakamoto, Yasushi, Kazuhiro Dohi, Hugo Fujiike, Takehisa Yuri, Akira Shinoda, and Jugoro Takeuchi. Microangiographic evaluation of the effects of heparin on progressive Masugi nephritis, 297
Nanra, Ranjit S., J. Stuart-Taylor, A.H. de Leon, and Kevin H. White. Analgesic nephropathy: Etiology, clinical syndrome, and clinicopathologic correlations in Australia, 79
Nolph, Karl D., Robert P. Popovich, Ahad J. Ghods, and Zbylut Twardowski. Determinants of low clearances of small solutes during peritoneal dialysis, 117

Oken, Donald, and Manfred Weise. Micropuncture studies of the transport of individual amino acids by the Necturus proximal tubule, 445
Ooi, Boon S., *See* FIRST, OOI, JAO, POLLAK, 166
Opava-Stitzer, Susan, *See* MARTINEZ-MALDONADO and OPAVA-STITZER, 194

Pak, Charles Y.C. Introduction to Symposium on Calcium Urolithiasis, 341
Patel, Yogendra, *See* RENNKE, PATEL, VENKATACHALAM, 278
Patterson, Maria J., *See* HOURANI, MAYOR, GREENBAUM, HUGGET, and PATTERSON, 324
Pennisi, Alfred J., Marian Wang, and Joel D. Kopple. Effects of protein and amino acid diets in chronically uremic and control rats, 472
Peters, D.K., *See* SIMPSON, MORAN, EVANS, and PETERS, 467
Pettersson, Erna E., Atul K. Bhan, Eveline E. Schneeberger, A. Bernard Collins, Robert B. Colvin, and Robert T. McCluskey. Glomerular C3 receptors in human renal disease, 245
Peyer, Anton, *See* DUBACH, ROSNER, LEVY, BAUMELER, MÜLLER, PEYER, EHRENSPERGER, and ETTLIN, 41
Pietrek, Jerzy, Franciszek Kokot, and Jadwiga Kuska. Serum 25-hydroxyvitamin D and parathyroid hormone in patients with acute renal failure, 178
Pollak, Victor E., *See* FIRST, OOI, JAO, POLLAK, 166
Popvich, Robert P., *See* NOLPH, POPOVICH, GHODS, and TWARDOWSKI, 117
Potvliege, Paul R., *See* SADOWSKI, POTVLIEGE, GEPTS, STAROUKINE, and LAMBERT, 253
Prager, Pedro, *See* RITZ, PRAGER, KREMPIEN, BOMMER, MALLUCHE, and SCHMIDT-GAYK, 316
Prezyna, Anthony, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480

Rainer, Stephen P., *See* TEAGUE, DOAK, SIMPSON, RAINER, and HERDSON, 492
Rennke, Helmut G., Yogendra Patel, and Manjeri A. Venkatachalam. Glomerular filtration of proteins: Clearance of anionic, neutral, and cationic horseradish peroxidase in the rat, 278
Ritz, Eberhard, Pedro Prager, Burkhard Krempien, Jürgen Bommer, Hartmut Horst Malluche, and Heinrich Schmidt-Gayk. Skeletal X-ray findings and bone histology in patients on hemodialysis, 316
Rodman, John S., and Thomas Baker. Changes in the kinetics of muscle contraction in vitamin D-depleted rats, 189
Rosner, Bernard, *See* DUBACH, ROSNER, LEVY, BAUMELER, MÜLLER, PEYER, EHRENSPERGER, and ETTLIN, 41

Sadowski, Janusz, Paul R. Potvliege, Willy Gepts, Michel Staroukine, and Pierre P. Lambert. Urea-induced proteinuria: A new experimental model, 253
Sakharam D. Mahurkar, Lee Meyers, Jr., Jerome Cohen, Radhakrishna V. Kamath, and George Duñea. Electroencephalographic and radionuclide studies in dialysis dementia, 306
Schmidt-Gayk, *See* RITZ, PRAGER, KREMPIEN, BOMMER, MALLUCHE, and SCHMIDT-GAYK, 316
Schneeberger, Eveline E., *See* PETTERSSON, BHAN, SCHNEEBERGER, COLLINS, COLVIN, and MCCLUSKEY, 245
Sepulveda, Marion, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480
Shelley, Julian H. Pharmacologic mechanisms of analgesic nephropathy, 15
Shinoda, Akira, *See* NAKAMOTO, DOHI, FUJIIKE, YURI, SHINODA, and TAKEUCHI, 297
Simpson, Ian J., *See* TEAGUE, DOAK, SIMPSON, RAINER, and HERDSON, 492
Simpson, I.J., J. Moran, D.J. Evans, and D.K. Peters. Prolonged complement activation in mice, 467
Smith, Lynwood H. Calcium-containing renal stones, 383
Staroukine, Michel, *See* SADOWSKI, POTVLIEGE, GEPTS, STAROUKINE, and LAMBERT, 253
Steele, Thomas H., and Johnnie L. Underwood. Renal response to phosphorus deprivation in the isolated rat kidney, 124
Stewart, John H. Analgesic abuse and renal failure in Australasia, 72

Stott, A. Norman, *See* THOMAS, LEDINGHAM, BEILIN, STOTT, and YEATES, 513
Stuart-Taylor, J., *See* NANRA, STUART-TAYLOR, DE LEON, and WHITE, 79

Takeuchi, Jugoro, *See* NAKAMOTO, DOHI, FUJIIKE, YURI, SHINODA, and TAKEUCHI, 297
Teague, Clinton A., Peter B. Doak, Ian J. Simpson, Stephen P. Rainer, Peter B. Herson, Goodpasture's syndrome: An analysis of 29 cases, 492
Thomas, Gwynne W., John G. G. Ledingham, Lawrence J. Beilin, A. Norman Stott, and Kay M. Yeates. Reduced renin activity in essential hypertension: A reappraisal, 513
Thomas, William C., Jr. Use of phosphates in patients with calcareous renal calculi, 390
Twardowski, Zbylut, *See* NOLPH, POPOVICH, GHODS, and TWARDOWSKI, 117

Ulmann, Andre, *See* GUBLER, LENOIR, GRÜFELD, ULMANN, DROZ, and HABIB, 223
Underwood, Johnnie L., *See* STEELE and UNDERWOOD, 117

Venkatachalam, Manjeri A., *See* DONOHOE, VENKATACHALAM, BERNARD, and LEVINSKY, 208
Venkatachalam, Manjeri A., *See* RENNKE, PATEL, and VENKATACHALAM, 278
Venuto, Rocco, *See* ANDRES, BRENTJENS, KOHLI, ANTHONE, ANTHONE, BALIAH, MONTES, MOOKERJEE, PREZYNA, SEPULVEDA, VENUTO, and ELWOOD, 480

Wang, Marian, *See* PENNISI, WANG, and KOPPLE, 472
Weise, Manfred, *See* OKEN and WEISE, 445
Welling, Dan J., *See* WELLING, WELLING, and HILL, 144
Welling, Larry W., Dan J. Welling, and John J. Hill. Shape of cells and intercellular channels in rabbit thick ascending limb of Henle, 144
White, Kevin H., *See* NANRA, STUART-TAYLOR, DE LEON, and WHITE, 79
Williams, Hibbard E. Oxalic acid and the hyperoxaluric syndromes, 410
Wilson, Douglas R., *See* GAULT and WILSON, 58

Yeates, Kay M., *See* THOMAS, LEDINGHAM, BEILIN, STOTT, and YEATES, 513
Yendt, Edmund R., and Moussa Cohanim. Prevention of calcium stones with thiazides, 397
Yuri, Takehisa, *See* NAKAMOTO, KOHI, FUJIIKE, YURI, SHINODA, and TAKEUCHI, 297

Zager, Richard A., and Charles B. Carpenter. Radioimmunoassay for urinary renal tubular antigen: A potential marker of tubular injury, 505

# Author Index for Supplement 8


Annoni, Giorgio, *See* PONTICELLI, BARBI, CANTALUPPI, DONATI, ANNONI, and BRANCACCIO, S-72
Archimbaud, Jean-Pierre, *See* TRAEGER, TOURAINE, ARCHIMBAUD, MALIK, and DUBERNARD, S-103
Ash, Stephen R., *See* SINCLAIR, BABBS, GRIFFIN, and ASH, S-153
Avioli, Louis V. Controversies regarding uremia and acquired defects in vitamin $D_3$ metabolism, S-36
Avram, Morrell Michael. Survival in uremia due to systemic diseases, S-55

Babbs, Charles F., *See* SINCLAIR, BABBS, GRIFFIN, and ASH, S-153
Barbi, Gianluigi, *See* PONTICELLI, BARBI, CANTALUPPI, DONATI, ANNONI, BRANCASSIO, S-72
Beaudoin, Jean-Guy, *See* GUTTMANN, MOREHOUSE, MEAKINS, KLASSEN, KNAACK, and BEAUDOIN, S-99
Bello, Pierino, *See* GIORDANO, ESPOSITO, BELLO, and QUARTO, S-138
Bergstrom, Jonas, and Peter Fürst. Uremic toxins, S-9
Beyer, Monica M., *See* FRIEDMAN, FEINSTEIN, BEYER, GALONSKY, and HIRSCH, S-170
Blackshear, Perry L., Jr. Two new concepts that might lead to a wearable, artificial kidney, S-133
Bobeck, James D., John J. Cipoletti and Mel Wexler. Isothermic and kinetic studies of uremic metabolite adsorption with Ambersorb XE-344 resin, S-163
Bonini, Sergio, *See* CASCIANI, DE SIMONE, BONINI, GALLUCCI, MATTEUCCI, VALESINI, MELI, and MASALA, S-49
Bonomini, Vittorio, Alba Vangelista, and Sergio Stefoni. Early dialysis in renal substitutive programs, S-112
Bonucci, Ermanno, *See* FIASCHI, MASCHIO, D'ANGELO, BONNUCCI, TESSITORE, and MESSA, S-79
Bovet, Kenneth, *See* SIMENHOFF, SAUKKONEN, BURKE, SCHAEDLER, VOGEL, BOVET, and LASKER, S-16
Brancaccio, Diego, *See* PONTICELLI, BARBI, CANTALUPPI, DONATI, ANNONI, and BRANCACCIO, S-72
Bricker, Neal S., and Leon G. Fine. The trade-off hypothesis: Current status, S-5
Burke, James F., *See* SIMENHOFF, SAUKKONEN, BURKE, SCHAEDLER, VOGEL, BOVET, and LASKER, S-16
Burton, Benjamin T. The federal government's role in management of end-stage renal disease, S-61
Butt, Khalid M.H., Cecile M. Zielinski, Ismail Parsa, Alfredo J. Elberg, William Wechter, and Samuel L. Kountz. Trends in immunosuppresion for kidney transplantation, S-95

Campanacci, L., *See* GUARNIERI, MORACCHIELLO, and CAMPANACCI, S-26
Cantaluppi, Alberto, *See* PONTICELLI, BARBI, CANTALUPPI, DONATI, ANNONI, and BRANCACCIO, S-72
Casanova, Silvia, *See* ZUCCHELLI, FUSAROLI, FABBRI, PAVLICA, CASANOVA, VIGLIETTA, and SASDELLI, S-86
Casciani, Carlo U., Claudio De Simone, Sergio Bonini, Massimo Taccone Gallucci, Giuliana Matteucci, Guido Valesini, Daniela Meli, and Cesare Masala. Immunological aspects of chronic uremia, S-49
Cipoletti, John J., *See* BOBECK, CIPOLETTI, and WEXLER, S-163
Cueille, George A., *See* FUNCK-BRENTANO, CUEILLE, and MAN, S-31

D'Angelo, Angela, *See* FIASCHI, MASCHIO, D'ANGELO, BONUCCI, TESSITORE, and MESSA, S-79
Davin, T., *See* KJELLSTRAND, ROSA, SHIDEMAN, RODRIGO, DAVIN, and LYNCH, S-120
DeSanto, Natale G., *See* GIORDANO, DESANTO, DITORO, PLUVIO, and PERRONE, S-83
De Simone, Claudio, *See* CASCIANI, DE SIMONE, BONINI, GALLUCCI, MATTEUCCI, VALESINI, MELI, and MASALA, S-49
DiToro, Rosario, *See* GIORDANO, DESANTO, DITORO, PLUVIO, and PERRONE, S-83
Donati, Carlo, *See* PONTICELLI, BARBI, CANTALUPPI, DONATI, ANNONI, and BRANCACCIO, S-72
Dubernard, Jean-Michel, *See* TRAEGER, TOURAINE, ARCHIMBAUD, MALIK, DUBERNARD, S-103

Elberg, Alfredo J., *See* BUTT, ZIELINSKI, PARSA, ELBERG, WECHTER, and KOUNTZ, S-95
Esposito, Renato, *See* GIORDANO, ESPOSITO, BELLO, and QUARTO, S-138

Fabbri, Luigi, *See* ZUCCHELLI, FUSAROLI, FABBRI, PAVLICA, CASANOVA, VIGLIETTA, and SASDELLI, S-86
Feinstein, Eben I., *See* FRIEDMAN, FEINSTEIN, BEYER, GALONSKY, and HIRSCH, S-170
Fiaschi, Ernico, Guiseppe Maschio, Angela D'Angelo, Ermanno Bonucci, Nicola Tessitore, and Piergiorgio Messa. Low-protein diets and bone disease in chronic renal failure, S-79
Fine, Leon G., *See* BRICKER and FINE, S-5
Friedman, Eli A., Eben I. Feinstein, Monica M. Beyer, Robert S. Galonsky, and Sondra R. Hirsch. Charcoal-induced lipid reduction in uremia, S-170
Friedman, Eli A., *See also* GIORDANO and FRIEDMAN, S-1
Funck-Brentano, Jean-Louis, George A. Cueille, and Nguyen K. Man. A defence for the middle molecule hypothesis, S-31
Fürst, Peter, *See* BERGSTROM and FÜRST, S-9
Fusaroli, Maurizio, *See* ZUCCHELLI, FUSAROLI, FABBRI, PAVLICA, CASANOVA, VIGLIETTA, and SASDELLI, S-86

Gallucci, Massimo Taccone, *See* CASCIANI, DE SIMONE, BONINI, GALLUCCI, MATTEUCCI, VALESINI, MELI, and MASALA, S-49
Galonsky, Robert S., *See* FRIEDMAN, FEINSTEIN, BEYER, GALONSKY, and HIRSCH, S-170
Giordano, Carmello, and Eli A. Friedman. Uremia: Formulations and expectations, S-1
Giordano, Carmelo, Natale G. DeSanto, Rosario Di Toro, Maria Pluvio, and Laura Perrone. Amino acid and keto acid diet in uremic children and infants, S-83
Giordano, Carmelo, Renato Esposito, Pierino Bello, and Ernesto Quarto. A resin-sorbent system for dialysate regeneration, S-138
Gleumes, Ludwig, *See* LEBER, GLEUMES, and SCHUTTERLE, S-43
Goldstein, David A., *See* GOLDSTEIN and MASSRY, S-39
Gotch, Frank A. and John A. Sargent. A theoretical definition of minimal acceptable dialysis therapy, S-108
Griffin, Dee D., *See* SINCLAIR, BABBS, GRIFFIN, and ASH, S-153
Guarnieri, G.F., M. Moracchiello, L. Campanacci. Lecithin-cholesterol acyltransferase (LCAT) activity in chronic uremia, S-26
Guttmann, Ronald D., Douglas D. Morehouse, Jonathan L. Meakins, John Klassen, Juergen Knaack, and Jean-Guy Beaudoin, Donor pretreatment in an unselected series of cadaver renal allografts, S-99

Henderson, L.W. Hemofiltration, S-145
Hirsch, Sondra R., *See* FRIEDMAN, FEINSTEIN, BEYER, GALONSKY, and HIRSCH, S-170
Holliday, Malcolm A. Characteristics of renal insufficiency in children, S-65

Jacobsen, Stephen C., *See* STEPHEN, JACOBSEN, KABLITZ, and KOLFF, S-125

Kablitz, Carl, *See* STEPHEN, JACOBSEN, KABLITZ, and KOLFF, S-125
Kjellstrand, C.M., A.A. Rosa, J.R. Shideman, F. Rodrigo, T. Davin, and R.E. Lynch. Optimal dialysis frequency and duration: The "unphysiology hypothesis," S-120
Klassen, John, *See* GUTTMANN, MOREHOUSE, MEAKINS, KLASSEN, KNAACK, and BEAUDOIN, S-99
Klein, Elias. A compound artificial kidney without dialysis: An analysis of remaining problems, S-188
Knaack, Juergen, *See* GUTTMANN, MOREHOUSE, MEAKINS, KLASSEN, KNAACK, and BEAUDOIN, S-99
Kolff, Willem J., *See* STEPHEN, JACOBSEN, KABLITZ, and KOLFF, S-125
Kopple, Joel D., Chick Fai Tam, Marian Wang, and Marian E. Swendseid. Diamine oxidase in renal failure, S-20
Kountz, Samuel L., *See* BUTT, ZIELINSKI, PARSA, ELBERG, WECHTER, and KOUNTZ, S-95
Kreis, H. Selection of hemodialysis versus cadaveric transplantation, S-91

Lasker, Norman, *See* SIMENHOFF, SAUKKONEN, BURKE, SCHAEDLER, VOGEL, BOVET, and LASKER, S-16
Leber, Heinrich-W., Ludwig Gleumes, and Georg Schutterle, Enzyme induction in the uremic liver, S-43
Lee, Shih-ching, *See* YOUNG and LEE, S-185
Lynch, R.E., *See* KJELLSTRAND, ROSA, SHIDEMAN, RODRIGO, DAVIN, and LYNCH, S-120

Malik, Marie-Christine, *See* TRAEGER, TOURAINE, ARCHIMBAUD, MALIK, and DUBERNARD, S-103
Man, Nguyen K., *See* FUNCK-BRENTANO, CUEILLE, and MAN, S-31
Masala, Cesare, *See* CASCIANI, DE SIMONE, BONINI, GALLUCCI, MATTEUCCI, VALESINI, MELI, and MASALA, S-49
Maschio, Giuseppe, *See* FIASCHI, MASCHIO, D'ANGELO, BONUCCI, TESSITORE, and MESSA, S-79
Mason, Norbert S., *See* SPARKS, MASON, RUTHERFORD, and SLATOPOLSKY, S-160
Massry, Shaul G., and David A. Goldstein. Role of parathyroid hormone in uremic toxicity, S-39
Matteucci, Giuliana, *See* CASCIANI, DE SIMONE, BONINI, GALLUCCI, MATTEUCCI, VALESINI, MELI, and MASALA, S-49
Meakins, Jonathan L., *See* GUTTMANN, MOREHOUSE, MEAKINS, KLASSEN, KNAACK, and BEAUDOIN, S-99
Meli, Daniela, *See* CASCIANI, DE SIMONE, BONINI, GALLUCCI, MATTEUCCI, VALESINI, MELI, and MASALA, S-49
Messa, Piergiorgio, *See* FIASCHI, MASCHIO, D'ANGELO, BONUCCI, TESSITORE, and MESSA, S-79
Moracchiello, M., *See* GUARNIERI, MORACCHIELLO, and CAMPANACCI, S-26
Morehouse, Douglas D., *See* GUTTMANN, MOREHOUSE, MEAKINS, KLASSEN, KNAACK, and BEAUDOIN, S-99

Nelson, Ralph A. Urea metabolism in the hibernating black bear, S-177

Oreopoulos, Dimitrios G. Renewed interest in chronic peritoneal dialysis, S-117

Parsa, Esmail, *See* BUTT, ZIELINSKI, PARSA, ELBERG, WECHTER, and KOUNTZ, S-95
Pavlica, Piero, *See* ZUCCHELLI, FUSAROLI, FABBRI, PAVLICA, CASANOVA, VIGLIETTA, and SASDELLI, S-86
Perrone, Laura, *See* GIORDANO, DESANTO, DITORO, PLUVIO, and PERRONE, S-83
Pluvio, Maria, *See* GIORDANO, DESANTO, DITORO, PLUVIO, and PERRONE, S-83
Ponticelli, Claudio, Gianluigi Barbi, Alberto Cantaluppi, Carlo Donati, Giorgio Annoni, and Diego Brancaccio. Lipid abnormalities in maintenance dialysis patients and renal transplant recipients, S-72

Quarto, Ernesto, *See* GIORDANO, ESPOSITO, BELLO, and QUARTO, S-138

Rodrigo, F., *See* KJELLSTRAND, ROSA, SHIDEMAN, RODRIGO, DAVIN, and LYNCH, S-120
Rosa, A.A., *See* KJELLSTRAND, ROSA, SHIDEMAN, RODRIGO, DAVIN, and LYNCH, S-120
Rutherford, W. Ernest, *See* SPARKS, MASON, RUTHERFORD, and SLATOPOLSKY, S-160

Sargent, John A., *See* GOTCH and SARGENT, S-108
Sasdelli, Mauro, *See* ZUCCHELLI, FUSAROLI, FABBRI, PAVLICA, CASANOVA, VIGLIETTA, and SASDELLI, S-86

Saukkonen, J.J., *See* SIMENHOFF, SAUKKONEN, BURKE, SCHAEDLER, VOGEL, BOVET, and LASKER, S-16
Schaedler, Russell W., *See* SIMENHOFF, SAUKKONEN, BURKE, SCHAEDLER, VOGEL, BOVET, and LASKER, S-16
Schärer, Karl. Growth in children with chronic renal failure, S-68
Schreiner, George E., and Charles Tartaglia. Uremia: Soma or psyche, S-2
Schutterle, Georg, *See* LEBER, GLEUMES, and SCHUTTERLE, S-43
Setälä, Kai. Bacterial enzymes in uremia management, S-194
Shideman, J.R., *See* KJELLSTRAND, ROSA, SHIDEMAN, RODRIGO, DAVIN, and LYNCH, S-120
Simenhoff, Michael L., J.J. Saukkonen, James F. Burke, Russell W. Schaedler, Wolfgang H. Vogel, Kenneth Bovet, and Norman Lasker. Importance of aliphatic amines in uremia, S-16
Sinclair, Anna, Charles F. Babbs, Dee D. Griffin, and Stephen R. Ash. Roux-Y intestinal bypass for administration of sorbents in uremia, S-153
Slatopolsky, Eduardo, *See* SPARKS, MASON, RUTHERFORD, and SLATOPOLSKY, S-160
Sparks, Robert E., Norbert S. Mason, W. Ernest Rutherford, and Eduardo Slatopolsky. Maximizing phosphate capacity of aluminum-based gels, S-160
Stefoni, Sergio, *See* BONOMINI, VANGELISTA, and STEFONI, S-112
Stephen, Robert L., Stephen C. Jacobsen, Carl Kablitz, and Willem J. Kolff. Combined technological-clinical approach to wearable dialysis, S-125
Swendseid, Marian E., *See* KOPPLE, TAM, WANG, and SWENDSEID, S-20

Tam, Chick Fai, *See* KOPPLE, TAM, WANG, and SWENDSEID, S-20
Tartaglia, Charles, *See* SCHREINER and TARTAGLIA, S-2
Tessitore, Nicola, *See* FIASCHI, MASCHIO, D'ANGELO, BONUCCI, TESSITORE, and MESSA, S-79
Tourain, Jean-Louis, *See* TRAEGER, TOURAINE, ARCHIMBAUD, MALIK, and DUBERNARD, S-103
Traeger, Jules, Jean-Louis Touraine, Jean-Pierre Archimbaud, Marie-Christine Malik, and Jean-Michel Dubernard. Thoracic duct drainage and antilymphocyte globulin for renal transplantation, S-103

Valesini, Guido, *See* CASCIANI, DESIMONE, BONINI, GALLUCCI, MATTEUCCI, VALESINI, MELI, and MASALA, S-49
Vangelista, Alba, *See* BONOMINI, VANGELISTA, and STEFONI, S-112
Viglietta, Giuseppe, *See* ZUCCHELLI, FUSAROLI, FABBI, PAVLICA, CASANOVA, VIGLIETTA, and SASDELLI, S-86
Vogel, Wolfgang H., *See* SIMENHOFF, SAUKKONEN, BURKE, SCHAEDLER, VOGEL, BOVET, and LASKER, S-16

Walser, Mackenzie. Keto-analogues of essential amino acids in the treatment of chronic renal failure, S-181
Wang, Marian, *See* KOPPLE, TAM, WANG, and SWENDSEID, S-20
Wardle, E. Nigel. How toxic are phenols, S-13
Wechter, William, *See* BUTT, ZIELINSKI, PARSA, ELBERG, WECHTER, and KOUNTZ, S-95
Wexler, Mel, *See* BOBECK, CIPOLETTI, and WEXLER, S-162

Yatzidis, Hippocrates. Preliminary studies with locust bean gum: A new sorbent with great potential, S-150
Young, Tze-kong, Shih-Ching Lee. Gastrointestinal dialysis in the therapy of uremia, S-185

Zielinski, Cecile M., *See* BUTT, ZIELINSKI, PARSA, ELBERG, WECHTER, and KOUNTZ, S-95
Zucchelli, Pietro, Maurizio Fusaroli, Luigi Fabbri, Piero Pavlica, Silvia Casanova, Giuseppe Viglietta, and Mauro Sasdelli. Treatment of ectopic calcification in uremia, S-86

# Abstracts—Author Index


Aberman, A., 440
Abrahams, C., 427, 430 (2), 432
Adams, B.K., 427
Alig, A., 539
Allain, P., 438
Alloatti, S., 329
Alt, J., 531
Amerio, A., 334
Amor, B., 438
Antonacci, A., 332
Aroldi, A., 332
Aronstam, A., 441
Atkinson, J., 534
Attallah, A.A., 526
Ayotte, G., 439

Badonnel, M.C., 537
Balant, A., 537
Balant, L., 435
Balcke, P., 531
Balfe, J.W., 441
Balzola, F., 333
Barbanel, C., 438
Barbiano di Belgioioso, G., 333
Barlassina, C., 329
Bartolomeo, F., 329
Bassi, S., 330
Bates, O., 335
Baudin, G., 437
Baumgartner, G., 535
Bear, R.A., 439, 440
Beaudoin, J.G., 440
Beaufils, H., 434
Becht, E., 533
Bellini, G., 332
Beltram, E., 333
Ben Dardff, A., 329
Ben Fahrat, M., 435
Benveniste, J., 436
Beretta-Piccoli, C., 533
Bergman, P., 435
Beroniade, V., 438
Berrard, E., 437
Beyer, J., 527
Bianchi, G., 331
Bianco, L., 333
Binswanger, U., 535, 536, 539
Biollaz, J., 535
Bird, A., 430
Blanc, N., 438
Bonjour, J.P., 537
Bonomini, V., 329, 332, 334
Bonucci, E., 330
Borgnino, L.C., 334
Borromeo, O.S.C., 341
Bortolotti, G.C., 329
Botha, A.P.J., 427
Boudry, J.F., 539
Branger, B., 437
Briner, J., 535, 536
Broccoli, R., 330
Brodehl, J., 526
Brown, J.J., 335
Broyer, M., 436
Brunner, F., 532, 538
Brunner, F.P., 535
Brunner, H.R., 539 (2)
Bruzzone, M., 334
Bussolino, F., 330
Buzelin, F., 435

Caillens, G., 437
Campanacci, L., 333
Campese, V., 538
Camussi, G., 329, 330 (2), 334
Canavese, C., 330
Cannella, G., 330 (2), 333
Cantu, P., 331
Capasso, G., 331
Caramello, E., 330
Cardella, C.J., 439 (2)
Cartier, F., 434
Casati, S., 332
Casellas, D., 437
Catizone, L., 335
Cattran, D., 440
Caudera, W., 333
Cavelier, B., 435
Cecchettin, M., 330
Celada, A., 537
Chabert, P., 537
Chalmet, J.P., 438
Chatelanat, F., 536
Chauvin, P., 536
Chersicla, M., 333
Chevallet, M., 437
Chevet, D., 434
Chiarini, C., 335
Churchill, D., 440
Cicchetti, T., 331
Clark, W.F., 439, 441 (2)
Coevoet, B., 435
Cohen, B.L., 430
Cohen, M., 427 (2)
Cohen, W., 440
Colasanti, G., 331
Cole, C.H., 439
Colon, S., 438
Coppo, R., 329, 330, 334
Coratelli, P., 334
Cordes, U., 530
Cordy, P.E., 539
Cortes, P., 428
Cristinelli, L., 330 (2), 333
Crosnier, J., 438
Cusi, D. M., 331

Daha, M.R., 336
D'Amico, G., 331
D'Angelo, A., 331
Dantant, M., 435
Deetjen, P., 526, 529
De Ferrari, G., 334
De Fomseca, M.E., 429
De Fremont, J.F., 435
Degli Esposti, E., 335
Degoulet, P., 436
De Graeff, J., 337
De Jong, M., 337
De Laharpe, F., 437
Delaloye, R., 535
De Magistri, A., 333
De Marchi, M., 330
DeMoor, M., 432
Dennis, B., 441
Depierre, D., 537
Dequiedt, P., 436
De Rougemont, D., 532, 538
De Roy, G., 436
De Santo, N.G., 331
Desch, G., 437
Descomps, B., 437
Desmit, E.M., 335
DeVeber, G.A., 441
De Zeeuw, D., 335
Diderich, P.P.N.M., 336
Dienemann, H., 527
Diezi, J., 535
Disler, P.B., 427 (2), 428 (2), 431, 432
Distler, A., 530, 533
Dogliani, M., 329
Dongradi, G., 435
Dorschner, F., 539
Dotti, A., 333
Downs, A., 440
Doyle, C.T., 437
Droz, D., 438
Drüeke, T., 438
Dubach, U.C., 535, 536
Dubois, D., 435
Duminiet, H., 428
Dumler, F., 428
Dupont, E., 436
Durasin, I., 526
Dusheiko, G., 432

Düsing, R., 526
Dyck, R.F., 439 (2)

Ebel, H., 534
Eckert, J., 535
Elema, J., 335
Elemer, G., 537
Emanuelli, G., 329
Erbes, P.M., 530
Eustace, C., 440

Fabre, J., 435, 535, 536
Faccini, L., 333
Faraggiana, T., 331
Farah, A., 438
Fatone, F., 332
Favre, H., 536, 537, 538
Fehr, J., 536
Feist, D., 533
Feletti, C., 329, 332
Feliciangeli, G., 334
Fendler, J.P., 435
Ferguson, R.K., 539
Fernandes, M., 332, 335
Ferrari, P., 331
Ferrario, F., 331
Fillastre, J.P., 435
Filloux, B., 538
Fiorentini, R., 332, 335
Fiorio, P., 332
Fisch, H.P., 536
Flammer, J., 535
Fleisch, H., 537
Folami, A.O., 441
Fontaine, M., 435
Fontenaille, C., 435
Fournier, A., 435
Frasca, G., 334
Fraser, R., 335
Frei, D., 535, 536
Frick, A., 526
Friesen, M.J., 441
Fung, H., 439
Furman, K.I., 429 (2)
Fuss, M., 435

Gabbiani, G., 537
Gäggeler, H.P., 538
Gaillard, R.C., 537
Galato, R., 333
Garcia, B., 537
Garibotto, G., 334
Garré, M., 434
Gatti, M., 331
Gauhl, C., 531
Gault, H., 440
Gavras, H., 539
Geering, K., 537
Geissler, H., 528
Gellissen, K., 526
Gerlag, P.G.G., 337
Gestonaro, G., 329
Giachino, G., 333
Gilbert, D., 435
Giordano, C., 331
Gloor, F., 536
Gloor, H.J., 537
Glück, Z., 535
Godin, M., 435, 436
Gold, C.H., 429 (3)
Goldberg, B., 429, 430
Goldberg, R.B., 428
Goldstein, M., 440
Gomperts, E.D., 429
Goosen, J., 431
Gordon, D.A., 439
Gosselin, B., 436
Gottheiner, T., 430
Gottheiner, T.I., 430
Grabensee, B., 531
Grahame, J.W., 440
Graziani., G., 332
Grebian, B., 528
Greger, R., 526, 529, 530
Gregorini, G., 330
Gregory, M.C., 430 (2)
Greven, J., 527
Grillo, C., 332
Gross, A., 436
Gross, F., 529
Grossenbacher, M., 536
Grott, G., 329, 333
Gruber, H., 528
Guarnieri, G.F., 333
Guédon, J., 434
Guenel, J., 435
Gueris, J., 435
Guignard, J.P., 538
Gurreri, G., 334
Guttmann, R.D., 440

Halperin, M.L., 441
Handelsman, S., 440
Hag, A., 440
Harris, L., 430
Hassan-Ali, S., 534
Hawlina, A., 527
Hayduk, K., 527
Hedtler, H., 532
Heidenreich, O., 527
Heidland, A., 528
Heine, W.D., 530
Heintze, K., 530
Helmchen, U., 527
Hervé, J.P., 434
Hesse, V.E., 430
Hew, E., 440
Hirsch, D., 533
Hirsch, J.F., 436
Hockley, J., 429
Hofbauer, K.G., 529
Hohlbrugger, J., 433
Hollenz, M., 530
Hörl, W.H., 528
Horster, M., 528
Hrubesch, M., 530
Huysmans, F., 337
Hyde, P., 432

Igelmann, H.J., 528
Intorp, H.W., 528
Izatt, S., 441

Jablonski, J.P., 437
Jacobs, C., 436
Jagjivan, D., 432
Jeffery, J.R., 440
Joffe, B.I., 428
Johnson, M., 439, 440
Jones, D., 439
Jungers, P., 438

Kaas, W.P., 526
Kahn, J.C., 435
Kalk, W.J., 429 (2), 432
Kallmeyer, J.C., 431
Kanfer, A., 436
Katz, A., 439
Keeton, G.R., 430, 433
Keown, P.A., 439
Keusch, G., 538
Kijlstra, A., 336
Kim, K.E., 335
Kinloch, R.D., 441
Kirchertz, E.J., 527, 534
Klassen, J., 440
Klaus, D., 534 (2)
Klein, H., 527
Knaack, J., 440
Knauf, H., 528 (2)
Kneissler, U., 527
Knutson, D.W., 336
Koch, K.M., 530
Koene, R.A.P., 337
Koerlings, H., 530
Konrad, G., 538
Konrads, A., 529
Kopsa, H., 531
Kourilsky, O., 436
Kramer, H.J., 526
Kramer, P., 529
Kramer, S., 432
Kreft, C., 437
Kreutz, W., 528
Kuhn, L., 428
Küppers, H., 531

L'Abbate, A., 329
Labeeuw, M., 438
Labidi, B., 436
Laidley, L., 428, 430, 432, 434
Lambrey, C., 435
Lameijer, L.D.F., 336
Lameire, N., 336
Lamperi, S., 332
Lang, F., 526, 529, 530
Largiader, F., 535, 536
Larsson, C., 533
Lee, D., 538
Lee, J.B., 526
Lee, K.Y., 440
Lelievre, G., 436
Lenti, G., 329

Lepoutre, E., 436
Leski, M., 538
Leumann, E.P., 538
Leusen, I., 336
Lever, A.F., 335
Levin, N.W., 428
Levine, E., 430
Levis, F., 333
Levy, D.W., 431, 433
Levy, M., 436
Lewin, J., 430, 432
Lewin, J.R., 428
Liebau, G., 527
Lin, S., 333
Lindsay, R.M., 439, 441 (2)
Linton, A.L., 439, 441 (2)
Lison, A.E., 529
Lissoos, I., 430
Loebinstein, L., 430
Loew, H., 530
Lohmann, R.C., 439
Losse, H., 528, 530
Loutan, L., 435
Louwerens, J.P., 441
Lübcke, R., 528
Lucas, J., 435
Lucsko, M., 434
Ludwig, H., 529
Lupi, G.P., 331
Lupo, A., 331 (2)
Lye, C., 440

MacSearraigh, E., 428, 431 (2)
MacSearraigh, E.T.M., 431
Maggiore, Q., 329
Maier, G., 433
Maiorca, R., 330 (2), 333
Man, N.K., 438
Mandressi, A., 332
Manz, F., 533
Marinozzi, V., 331
Martini, A., 436
Martini, P.F., 334
Marzullo, F., 334
Maschio, G., 331 (2)
Mason, J., 433
Massry, S.G., 533, 538
Matthaei, D., 529
Mayr, W.R., 531
Mazzaracchio, R., 332
Mazzucco, G., 333
Meakins, J.M., 440
Mendes da Costa-Richard, C., 436
Messa, P., 331
Meyers, A., 430, 433
Meyers, A.M., 427 (2), 428 (2), 430, 431, 432 (2), 434
Meyrier, A., 437
Miescher, P.A., 536
Milani, S., 333
Milne, F.J., 427 (2), 428, 431, 432 (2), 434
Milne, J., 433
Mimran, A., 437
Mioli, V., 333
Mion, C., 437
Mioni, G., 330 (2), 332, 333
Misefari, V., 329
Mombelloni, S., 333
Mondorf, W., 531
Monga, G., 333
Monnens, L., 337
Morehouse, D.D., 440
Morel-Maroger, L., 436
Morley, J.E., 429
Morley, J., 429
Moser, F., 538
Myers, H.S., 430
Myburgh, J.A., 430, 431, 432
Müller, K.M., 529
Musiani, M., 332
Mussche, M., 336
Mutschler, E., 528

Naets, J.P., 436
Naidoo, P.M., 427, 432
Nicolas, J.P., 436
Noel, L.H., 438

Oberleithner, H., 526, 530
Ody, B., 538
Oe, P.L., 337
Oeschger, A., 538
Ogilvie, R., 441
Olbricht, C., 433
Onesti, G., 332, 335
Oreopoulos, D. G., 441
Osswald, H., 527
Osterziel, K.J., 527
O'Sullivan, D.J., 431
Oules, R., 437

Palmo, A., 333
Panzetta, G., 333
Passavanti, G., 334
Paul, L.C., 337
Pauw, F.H., 427, 432
Pecker, S., 434
Peheim, E., 535
Pertosa, G., 334
Peters, G., 535
Peters-Haefeli, L., 534
Petersen, K.U., 530
Pettifor, J., 434
Philipp, T., 530
Piccoli, G., 329, 330 (2), 333
Pielsticker, K., 532
Piguet, J.D., 535
Pillay, G.P., 433
Piscitelli, M., 334
Piza, F., 531
Poggi, A., 329
Polito, C., 437
Ponsin, D., 436
Pontoglio, G.L., 330
Prancini, B., 330
Prandini, B., 333
Prenat, E., 436
Previato, G., 331

Quarello, F., 329
Quehenberger, P., 529
Quichaud, J., 435

Radtke, H.W., 530
Ragni, A., 331
Ragni, R., 330
Ramsey, E., 440
Rapoport, A., 441
Rashid, A., 442
Reach, I., 436
Reubi, F., 533
Reutter, F.W., 536
Reville, P., 437
Ribet, M., 436
Richet, G., 436
Richtmann, L., 535
Ringoir, S., 336
Riondel, A.M., 537
Rivat, C., 435
Rivier, J.L., 539
Rivory, J.P., 436
Robertson, J.I.S., 335
Robner, J.A., 533
Robson, M., 441, 533
Robson, W.L.M., 441
Rocha, P., 435
Romen, W., 530
Rossier, B.C., 537, 538
Rossier, M., 538
Rosso, E., 330
Rottembourg, J., 436
Rovelli, R., 332
Rubenstein, A.H., 428
Rudhardt, M., 536

Sacks, M.A., 439
Salant, D., 428
Samimi, H., 435
Samizadeh, A., 530
Santoro, A., 335
Sauter, C., 536
Schäfer, K., 531
Schärer, K., 533
Scheler, F., 529, 531
Schena, F.P., 334
Scherberich, J.E., 531
Scherer, B., 533
Schippers, E., 530
Schmidt, P., 531
Schnippenkötter, I., 528
Schnurr, E., 531
Schoeppe, W., 531, 532
Schurek, H.J., 531
Schwartz, P.A., 433
Seftel, H.C., 428
Segall, M., 430
Segoloni, G., 330 (3)
Segoloni, G.P., 334 (2)
Senciall, I., 440
Sengar, D.P., 442

Shainhouse, Z., 439
Sietzen, K., 531
Silbernagl, S., 532
Silverman, M., 439
Solal-Celigny, P., 434
Solomon, L., 430
Spargo, B.H., 428
Sperling, J., 528
Spinelli, F., 532
Spiteller, G., 529
Sraer, J.D., 436
Stahl, R., 527
Stefoni, S., 334
Stephan, F., 437
Stinebaugh, B.J., 441
Stolte, H., 531
Stratta,P., 330 (2), 333, 334 (2)
Strombeck, J.A., 433
Surian, M., 332
Sutton, R.A.L., 441
Swartz, C., 332, 335

Tacquet, A., 436
Takabatake, T., 433
Tarocco, R.P., 329
Tcherdakoff, P., 437
Tessitore, N., 331
Thiel, G., 532, 535, 538
Thien, T., 337
Thoenes, G.H., 532
Thomson, A., 439
Thomson, A.E., 440
Thomson, P.D., 433
Thoua, Y., 436
Thurau, K., 433
Tim, L.O., 429
Tizianello, A., 334
Torhorst, J., 532, 538
Triolo, G., 333, 334
Tuma, J., 539
Turini, G.A., 539
Twomey, M., 431

Uzzan, D., 436

Vallotton, M.B., 537 (2)
Valvo, E., 335
Van Collenburg, J., 337
van der Vijgh, W.J.F., 337
Van der Wijk, J., 335
Vandewalle, A., 436
Van Es, L.A., 336, 337
Van Herk, G., 335
Vanherweghem, J.L., 435
Van Leeuwen, A., 337
Van Rood, J.J., 337
van Tonder, H., 430
Van Wieringen, P., 337
Verbeelen, D., 435
Vercellone, A., 329, 330, 334 (2)
Ventura, S.C., 439
Very, J.M., 537
Viljoen, M., 429 (2)
Vlachoyannis, J., 532
Vox, E., 334

Wagner, O., 531
Wahbe, W.C., 437
Wais, U., 528 (2)
Waldherr, R., 533
Walter, U., 533
Walther, A., 532
Wauters, J.P., 539
Weber, H.P., 526
Weber, P.C., 533
Weidmann, P., 533, 535, 538
Wessels, F., 530
Westbroek, D.L., 336
Wijdeveld, P.G.A.B., 337
Wilkinson, A., 433
Willimann, P., 539
Wilson, D., 440
Witzgall, H., 534
Wolfish, N., 442
Wong, R.A., 432

Zaltsman, M.L., 434
Zanetti, M., 438
Záruba, K., 539
Zazgornik, J., 531
Zech, P., 438
Zehner, J., 534 (2)
Ziegan, R., 527
Zingraff, J., 438
Zoethout, H., 337
Zuccalà, A., 335
Zucchelli, P., 335

# Subject Index for Volume 13


Adenosine triphosphatase
  from amphibians, properties of (abstr.), 537
Albumin
  hypoalbuminemia, serum calcium's role in, (abstr.), 441
Albuminuria
  micropuncture study of (abstr.), 531
Aluminum-based gels
  phosphate capacity maximized in, S-160
Amines, aliphatic
  in uremia, S-16
Amino acids
  in dietary therapy for uremia
    in children, S-83
    in rats, 472
  keto-analogues of, to treat chronic renal failure, S-181
  tubular transport of, in Necturus, micropuncture study, 445
Aminosides
  as nephrotoxins (abstr.), 536
Amyloidosis
  colchicine therapy for (abstr.), 431
Analgesic nephropathy, 1–113
  abuse and renal failure, in Australasia, 72
  clinical syndrome, management and outcome, in Canada, 58
  cause of death in (abstr.), 536
  changing concepts in pathogenesis and morphology, in Europe, 27
  editorial from Symposium on, 1
  epidemiologic, clinical, and pathogenetic features, in U.S.A., 64
  epidemiology of, in Switzerland, 41
  etiology, clinical syndrome, and clinicopathology, in Australia, 79
  experimental renal papillary necrosis and, 5
  genesis of, in United Kingdom, 50
  malignancies of urinary tract and relation to, 107
  pathology of, in Australia, 34
  pharmacologic mechanisms of, 15
  renal papillary necrosis of: radiologic changes, 93
  renal tract microangiopathy and pathogenesis of (abstr.), 427
  uroepithelial tumors and (abstr.), 535
Angiotensin
  analgesic nephropathy and, 15
  effect on renal prostaglandin synthesis, 136
Antacids
  maximizing phosphate capacity of, S-160
Antibody studies
  in chronic uremia, S-49
  of human tubulo-interstitial nephritis, 480
  prolonged complement activation in mice, 467
Anticoagulants
  in unilateral progressive Masugi nephritis, 297
Arachidonic acid
  in renal prostaglandin synthesis, 136
Artificial kidney
  wearable type, concepts for, S-133
  without dialysis, in uremia, S-188
Aspirin
  analgesic nephropathy and, 1–113
  comparative nephrotoxicity of, 5
  pharmacology of, in analgesic nephropathy, 15

Bacteria
  *b.* enzymes to treat uremia, S-194
  Pneumococcus, glomerulitis with (abstr.), 434
Bacteriuria
  in analgesic nephropathy, 41
  renal histology and function in short- and long-term studies of, 129
Bartter's syndrome
  etiology and treatment of (abstr.), 340
Berger's disease
  clinical and morphologic study (abstr.), 336
Bladder
  analgesic cystitis of (abstr.), 430
Blood pressure, *See also* Hypertension
  action of teprotide (SQ 20881) on, in rats, 289
  low-renin hypertension and, 513
  response to angiotensin, adrenergic influence (abstr.), 527
Bone histology, *See also* Osteodystrophy
  and X-ray findings in hemodialysis patients, 316
Bradykinin
  effect on renal prostaglandin synthesis, 136
Bumetanide
  effect on renal adenylcyclase (abstr.), 527

C3 receptor activity, glomerular
  in human renal disease, 253
Caffeine
  in analgesic nephropathy, 58
Calcification, ectopic
  diphosphonate to treat, S-86
Calcium
  hypercalciuria in phosphorus-deprived rats, 124
  metabolism of, in acute renal failure, role of vit. D and PTH in, 178
  and muscle kinetics in vit. D-depleted rats, 189
Calcium oxalate, *See* Urolithiasis
Calcium phosphate, *See* Urolithiasis
Calcium urolithiasis
  Symposium on, 341–426
Cancer
  of urinary tract, relation to analgesic nephropathy, 107
Cantharidin
  toxic effect on renal and urinary tract (abstr.), 536
Carbon dioxide tension
  in determining small solute clearances in peritoneal dialysis, 117
Cerebrospinal fluid
  in dialysis dementia, 306

Charcoal sorbent
for lipid reduction in uremia, S-170
Children
chronic renal failure in, growth, S-68
nephrotic syndrome in, lab and clinical tests to predict histopathology, 159
renal insufficiency in, characteristics of, S-65
uremia in, diet therapy for, S-138
Chloride
role in renin-inhibition by sodium chloride, 208
Chromosomal studies
in Fabry's disease, 236
Coagulation system
and renal lesions, 263
Creatinine, serum
in analgesic nephropathy, 41
evaluated for childhood renal diseases (abstr.), 538
Cyroglobulinemia, mixed IgG-IgM
monocytic glomerular infiltration in (abstr.), 338

Dextrans
in study of protein clearance in glomerulus, 278
Diabetes
and renal changes, biochemical pathogenesis (abstr.), 428
urinary cyclic AMP in cranial *d.* insipidus (abstr.), 432
Dialysis, *See also* Hemodialysis
corticodependent hypercalcemia and (abstr.), 435
dialysate clearances, effect of hypertonic *d.* and vasodilators on, 271
dialysate regeneration by resin-sorbent, S-138
dialysis dementia, EEG and radionuclide studies, 306
diet effects on blood lipids in (abstr.), 338
encephalopathy and, related to tap water (abstr.), 434
frequency and duration, unphysiology hypothesis, S-120
gastrointestinal *d.*, for uremia, S-185
hypercalcemia with Reiter's syndrome in (abstr.), 438
kinetics of bicarbonate from acetate generation during (abstr.), 338
locust bean gum sorbent in, S-150
maintenance *d.*
and lipid abnormalities, S-72
and transplantation facilities in South Africa (abstr.), 429
metabolite adsorption by resins in, S-163
methahemoglobinemia and analgesic use in (abstr.), 431
minimal acceptable dialysis therapy, theoretic definition, S-108
peritoneal *d.*
clearances, effect of hypertonic dialysate and vasodilators on, 271
clearances of small solute in, 117
clearance of solutes, effect of exchange volume and dialysate flow rate (abstr.), 441
heparin and (abstr.), 429
renewed interest in, S-117
in rural area of South Africa (abstr.), 431
saphenous homografts and venous autografts for, pros and cons (abstr.), 339
and survival in uremia-related systemic disease, S-55
twice per week of short duration, clinical results (abstr.), 436
wearable artificial kidney for, S-125, S-133
Diamine oxidase
in uremia, S-20

Diet therapy, *See* specific diet or disease
Digoxin intoxication
charcoal hemoperfusion to treat (abstr.), 539
Dimethylamine
in uremia, S-16
Diphosphonate
to treat ectopic calcification in uremia, S-86
Diuretics
effect on fluid and ion transport of guinea pig gall bladder (abstr.), 530
effect on serum triglyceride or cholesterol levels (abstr.), 535
renin-angiotensin-aldosterone system and (abstr.), 531

Edema
renal and hepatic, Xipamide therapy for (abstr.), 429
Electroencephalographic studies
of dialysis dementia, 306
Endotoxin
chemical sympathectomy to study fibrin deposition induced by, 263
Enzymes
bacterial *e.*, to treat uremia, S-194
induction, in uremic liver, S-43
replacement therapy, and Fabry's disease, 236
E rosettes
in chronic uremia, S-49

Fabry's disease
early renal changes in hemizygous and heterozygous patients with, 236
Fanconi syndrome
cystinosis with (abstr.), 427
Fibrin deposition, renal
endotoxin induced, study of chemical sympathectomy in, 263
Focal and segmental glomerulohephritis
clinical and lab tests to predict histopathology of, in children, 159
Frusemide
and low-resin hypertension, 513
Furosemide
effect on renal adenylcyclase (abstr.), 527

Glomerular basement membrane
antibodies to, in human tubulo-interstitial nephritis, 480
Glomerular diseases
lab and clinical tests to predict histopathology of nephrotic syndrome in children, 159
in pregnancy, 166
Glomerular lesion,
and urea-induced proteinuria, new experimental model, 257
Glomerulonephritis
circulating immune complexes in, qualitative analysis (abstr.), 335
crescentic *g.*, immunology of, 480
$HB_s$ Ag-positive chronic hepatitis (abstr.), 334
hemorrhagic cystitis and (abstr.), 430
levamisole therapy for (abstr.), 429
membranous *g.*, repeat biopsies in (abstr.), 438
membranoproliferative *g.*
clinical and lab tests to predict histopathology of, in children, 159
and prolonged complement activation in mice, 467

Glomerulonephritis (*cont'd*)
mesangial proliferative *g.*
histology and ultrastructural study of (abstr.), 336
water and electrolyte metabolism in (abstr.), 336
nephritic factor in, quantitative analysis (abstr.), 339
polymyositis and arthritis in (abstr.), 439
rapidly progressive *g.*, immunology of (abstr.), 528
Glomerulus
C3 receptor activity, in human renal disease, 253
filtration and capillary pressure study, in hypertension, 450
filtration of proteins, clearance study, 278
Glycolipids, renal
and Fabry's disease, 236
Goodpasture's syndrome
an analysis of 29 cases, 492
South African cases of (abstr.), 428

Hematology
of surf-ski marathon group (abstr.), 433
Hemodialysis
autonomic nervous system in normotensive and hypertensive patients on (abstr.), 433
chronic *h.*
gastric acid secretion and serum gastrin levels in (abstr.), 429
hemodynamic data related to exercise (abstr.), 435
platelet factor 4 activity in (abstr.), 441
and RBC transport abnormality in uremia (abstr.), 439
sodium acetate utilization during (abstr.), 437
thyrotropin-releasing hormone in (abstr.), 429
chronic intermittent *h.*, digoxin therapy for (abstr.), 342
coagulation parameters during (abstr.), 335
hepatitis B surface antigen in urine of patients on, 327
intracardiac air in, radiographic demonstration (abstr.), 430
program to meet rising number of patients on (abstr.), 539
small solute clearances in, compared to peritoneal *d.*, 117
vs. transplantation, in uremia, S-91
Hemofiltration
advantages of (abstr.), 531
for uremia, S-145
Hemolytic uremic syndrome
heparin vs. streptokinase therapy for (abstr.), 342
Heparin
effects on progressive Masugi nephritis, 297
Hepatitis B surface antigen
in urine of hemodialysis patients, 327
Hibernating bear
urea metabolism in, S-177
Horseradish peroxidase
to study glomerular filtration of proteins, 278
Hyperparathyroidism
in acute renal failure, role of vit. D and PTH in, 178
Hypertension, essential
erythrocyte cation transport in (abstr.), 533
familial vs. normotensive relationship (abstr.), 336
intrarenal circulation in low- and normal-renin *e.h.*, 245
micropuncture study of, before and after development of, 450
noradrenaline action in (abstr.), 530
reduced renin activity in, 513

Hypertension, low-renin
effect of spironolactone on aldosterone secretion in (abstr.), 537
Hypertension, refractory
minoxidel therapy for (abstr.), 538
Hypertension, renal
effect on aortic endothelial cells (abstr.), 537
effect of 1-Sar-8-Ala-angiotensin in (abstr.), 337
slow infusion of diazoxide for (abstr.), 342
teprotide (SQ 20881) to reduce BP in, 289
and unilateral hydronephrosis, renin-angiotensin system in (abstr.), 533
Hypocalcemia
in acute renal failure, role of vit. D and PTH in, 178
Hypotension
induced by hemodialysis or ultrafiltration (abstr.), 335
renal *h.*, renin-angiotensin system in (abstr.), 527
Hypoxemia
effect on renal function during angiotensin II inhibition (abstr.), 538

Immunology
of brush border membranes (abstr.), 531
of chronic uremia, S-49
of glomerular C3 receptors in human renal disease, 253
glomerular localization of immune complexes with known size and composition (abstr.), 341
of Goodpasture's syndrome, 492
of hepatitis B surface antigen in urine of hemodialysis patients, 327
of human tubulo-interstitial nephritis, 480
mast-cell, basophil, IgE system (abstr.), 335
of progressive Masugi nephritis, effects of heparin on, 297
prolonged complement activation in mice, 467
of systemic lupus erythematosus (abstr.), 536
and thoracic duct drainage prior to transplantation, S-103
trends in immunosuppression for kidney transplantation, S-95
urinary renal tubular antigen in tubular injury, 505
Intestinal bypass
for sorbents, S-153
Inulin clearance
in peritoneal dialysis, 117
Ischemia, renal
analgesic nephropathy and, 5
effect on renal prostaglandins synthesis, 136
tubular leakage and obstruction after, structure-function correlations, 223

Leakage, tubular
after renal ischemia, structure-function study, 223
Lecithin-cholesterol acyltransferase
in uremia, S-26
Lesions, renal
endotoxin-induced, study of role of sympathetic nervous system in, 263
Limb of Henle, thick ascending limb
shape of cells & intercellular channels in, 144
Lipids
charcoal sorbent for, in uremia, S-170
in dialysis and transplant patients, S-72
Liver
enzyme induction in, in uremia, S-43

Loop of Henle, thick ascending
differentiation of, anisotonic transport in (abstr.), 528
Lumen, submaxillary duct of
ion transport in (abstr.), 528
Lupus erythematosus
hereditary C2 deficiency (abstr.), 435
systemic *l.e.*, with pure interstitial disease (abstr.), 428
Lupus nephritis
thrombocytopenia, immunology, and disease activity in (abstr.), 439

Magnesium ammonium phosphate, *See* Struvite
Masugi nephritis, progressive
effects of heparin on, 297
Membrane studies
glomerular permeability to proteins, 278
2-Mercapto propionylglycine
nephrosis during treatment with (abstr.), 339
Microdissection study
of hereditary polycystic kidney disease, 519
Micropuncture study
of amino acid transport by Necturus proximal tubule, 445
of nephron filtration, in hypertension, 450
Morphology
of Berger's disease, 336
of cells and intercellular channels in ascending limb of Henle in rabbit, 144
of thick ascending limb of Henle in rabbit, 144
of tubular disorders in children (abstr.), 533
of urinary tract, in analgesic nephropathy, 27
Minimal change nephrotic syndrome
clinical and lab tests to predict histopathology of, in children, 159
Muscle contraction
vit. D related to kinetics of, 189

Natriuresis
analgesic nephropathy and, 15
Natriuretic factor, urinary
during water immersion, 152
Nephrectomy
bilateral *n.*, serum erythropoietin after (abstr.), 530
compensatory growth after, role of renal cortex (abstr.), 435
compensatory growth after, mechanisms (abstr.), 437
renal kallikrein-kallidin system and (abstr.), 437
Nephritis
anti-GBM *n.*, in Goodpasture's syndrome, 492
human tubulo-interstitial *n.*, histology of, associated with antibodies to renal basement membrane, 480
nephrotoxic serum *n.*, immunology of, neutrophil cationic proteins in (abstr.), 334
shunt *n.*, basophil sensitization in (abstr.), 436
Nephrolithiasis, *See also* Urolithiasis
calcium oxalate and, 418
Nephrolithiasis, calcic
calcic *n.*, diagnosis and prevention of (abstr.), 337
Nephron
filtration, in micropuncture study of hypertension, 450
juxtamedullary *n.*, role in high rates of urine flow, 201
morphology of thick ascending limb of Henle in rabbit, 144
Nephrotic syndrome
in children, prediction of histopathology from clinical and lab tests, 159
histology and biochemical changes (abstr.), 432
with pre-eclampsia, 166
Nephrotoxic effect
of complement activation studied in mice, 467
Nitrogen
low-nitrogen diets in experimental uremia, 472
Noradrenalin
analgesic nephropathy and, 15
Nucleic acid
turnover rate of, in chronic uremia, dialysis, transplantation (abstr.), 339

Obstruction, renal
microvascular *r.o.*, effect on renal vascular tone (abstr.), 439
of tubules, after renal ischemia, structure-function study, 223
Oral contraceptives
hemolytic and uremic syndrome and (abstr.), 538
Orthophosphate
as therapy for calcareous renal calculi, 390
Osteodystrophy, uremic
calcitonine in treatment of (abstr.), 334
in chronic renal failure, low-protein diets, S-79
and dialysis, X-rays and histology of bone, 316
after renal transplantation, metabolic and histologic aspects (abstr.), 335
Oxalate, *See also* Urolithiasis
renal transport of (abstr.), 526
Ozolin
renal effects of (abstr.), 527

Papillary necrosis
analgesic induced, 1–113
Papillary structure
effect of high rates of urine flow on, 201
Paracetamol
analgesic nephropathy and, 1–113
comparative nephrotoxicity of, 5
Parathyroidectomy
autotransplantation of parathyroid tissue in forearm after (abstr.), 437
effect on phosphorus transport, 124
inorganic phosphate reabsorption after (abstr.), 526
Parathyroid hormone
and magnesium interaction (abstr.), 530
in phosphorus-deprived rat, 124
role in uremia, S-39
and vit. D in serum of patients with acute renal failure, 178
vit $D_3$'s effect on renal response to (abstr.), 537
Parenchymal disease, renal
early stage of, hemodynamic changes in hypertension of (abstr.), 340
Pathogenic organisms
acute and chronic studies of effect on renal histology and function, 129
Perfusate
effect on phosphorus-deprived rat kidney, 124
Perfusion, kidney
measurement of, with rubidium 81-to-krypton 81m ratio (abstr.), 340

Phenacetin
analgesic nephropathy and, 1–113
comparative nephrotoxicity of, 5
Phenols
as uremic toxins, S-13
Phenylmercuric acetate
effect on kidney function of rat (abstr.), 535
Phosphate
hyperphosphatemia and aluminum-based gels, S-160
metabolism in acute renal failure, role of vit. D and PTH in, 178
and muscle kinetics in vit. D-depleted rats, 189
reabsorption of, during phosphorus-depleted isolated rat kidney, 124
as therapy for calcareous renal calculi, 390
Polyarteritis nodosa
diagnostic and therapeutic problems of (abstr.), 430
Polycystic kidney disease, hereditary
microdissection study of early stage of adult form of, 519
Potassium depletion
role of prostaglandin and extracellular potassium in (abstr.), 526
Pre-eclampsia
with nephrotic syndrome, 166
Pregnancy
hemolysis and uremia in (abstr.),436
and nephropathy, histopathologic course (abstr.), 438
propranolol and (abstr.), 437
and renal disease, 166
Propranolol
effect in early hypertension (abstr.), 534
and metoprolol with potassium-sparing diuretic, antihypertensive effect (abstr.), 534
Prostaglandins
analgesic nephropathy and, 5, 15
secretion and excretion in kidney, 136
in sodium and water balance (abstr.), 533
Protein
dietary effect on uremic rats, 472
glomerular filtration of, 278
low-protein diets, in bone disease and chronic renal failure, S-79
low-protein diet, in chronic uremia, S-112
Proteinuria
in pre-eclampsia, 166
urea-induced, new experimental model, 257
Psychologic factors
in analgesic nephropathy, 50, 58
in uremia, S-2
Pyelonephritis
acute *p.*, angiograms of, in rabbit (abstr.), 529
renal histology and function during, acute and chronic studies, 129

Renal blood flow
in low- and normal-renin essential hypertension, 245
Renal disease
chronic *r.d.*, low-protein diets and bone disease in, S-79
glomerular C3 receptors in, 253
Renal failure
acute *r.f.*
after radiographic contrast media (abstr.), 427
early ischemia in, pathogenesis of obstruction (abstr.), 532
gentamicin-induced (abstr.), 538
Renal failure (*cont'd*)
initiation phase of (abstr.), 433
non-steady-state mathematical model of (abstr.), 440
vit. D and PTH in serum of patients with, 178
chronic *r.f.*
growth of children with, S-68
keto-analogues of essential amino acids to treat, S-181
neuropathy and (abstr.), 338
Pica (ingestion of inedible substances) and (abstr.), 430
plasma 25-hydroxyvitamin D deficiency in rats with (abstr.), 537
end-stage *r.f.*, Federal Government's role in, S-61
hysterectomy in septic abortion and (abstr.), 427
nephrographic pattern in (abstr.), 433
unusual case of (abstr.), 427
Renal infection
histology of and renal function in, 129
Renal insufficiency
hepatic and cerebral urea synthesis in (abstr.), 339
and hypoglycemic activity of glibenclamide (abstr.), 435
hypovitaminosis PP when on hemodialysis for (abstr.), 436
Renin
and aldosterone secretion, regulator systems (abstr.), 534
in essential hypertension, 513
and essential hypertension, intrarenal circulation study, 245
in plasma, role of chloride in inhibition of, 208
release of, perfusion study (abstr.), 529
Renin-angiotensin system
in normotensive patients with chronic congestive heart failure (abstr.), 539
in study of teprotide (SQ 20881) in reducing blood pressure, 289
Resins
for dialysate regeneration, S-138
for metabolite adsorption in uremia, S-163

Salicylate, *See also* Aspirin
analgesic nephropathy and, 1–113
Saralasin
compared to hypotensive effect of teprotide (SQ 20881), 289
Sarcoidosis
renal *s.*, clinical features and natural history of (abstr.), 440
with renal involvement (abstr.), 431
Shwartzman reaction
sympathetic nervous system and, endotoxin-induced, 263
Sodium
excretion
effect of prostaglandin synthesis inhibition on (abstr.), 341
urinary natriuretic factor in normal men undergoing water immersion, 152
urine concentration and dilution and, in high rates of urine flow, 201
in low-renin hypertension, 513
role of chloride in renin responses to, 208
Sodium urate, *See* Urolithiasis
Sorbents
Ambersorb resins, in uremia, S-163
charcoal to reduce lipids in uremia, S-170

dialysate regeneration using resins, S-138
of locust bean gum, S-150
Roux-Y intestinal bypass for administration of, S-153
Stones, *See* Urolithiasis
*Streptococcus fecalis*
to test histology and function in renal infection, 129
Structure-function studies
on tubular leakage and obstruction after renal ischemia, 223
Struvite stones
urolithiasis and, 372
Sympathetic nervous system
and endotoxins in renal fibrin deposition, 263
Syndrome of inappropriate secretion of antidiuretic hormone
and cerebrovascular accident (abstr.), 438
furosemide and normal saline to treat (abstr.), 441

Thiazides
to prevent calcium stones, 397
Thiola®, *See* Mercapto propionylglycine
Thoracic duct drainage
prior to renal transplantation, S-103
Thyroid hormone
effect with aldosterone on sodium transport, in toad bladder (abstr.), 538
Thyroparathyroidectomy
and muscle kinetics in vit. D-depleted rats, 189
phosphate reabsorption after phoshate-loading (abstr.), 530
Transplantation, renal
allografts
acute leukemia after (abstr.), 536
antibodies against vascular endothelium (abstr.), 342
hyperlipidemia in, dietary therapy for (abstr.), 428
urinary lysosomal enzyme levels after (abstr.), 439
variables influencing outcome (abstr.), 440
blood transfusion and graft survival (abstr.), 531, 532
cadaver donor pretreatment, randomized study (abstr.), 440
cancer after (abstr.), 436
cytomegalovirus infection in, cytosine arabinoside to treat (abstr.), 337
donor pretreatment in, S-99
and early dialysis, in chronic uremia, S-112
effect of mannitol and furosemide on kidney function after (abstr.), 341
hyperparathyroidism before and after, 431
immunosuppression for, trends in, S-95
intrarenal fibrin deposition after (abstr.), 432
lipid abnormalities and, S-72
leukemia after (abstr.), 436
steroid-related osteonecrosis after, calcium and PTH metabolism in (abstr.), 430
strongyloidiasis after (abstr.), 535
T lymphocytes with immunosuppressive therapy after (abstr.), 432
thoracic duct drainage and antilymphocyte globulin for, S-103
vs. hemodialysis, in uremia, S-91
Triamterene
diuretic activity of, in renal insufficiency (abstr.), 528
Trimethylamine
in uremia, S-16

Tubules, renal
damage after cytostatic agents, contrast media, and cardiac surgery, urinary indexes of (abstr.), 338
disorders in children, morphology (abstr.), 533
distal *t.*
acidosis of, and nephrogenic diabetes insipidus (abstr.), 441
macula densa cell regeneration in (abstr.), 530
injury, urinary renal tubular antigen in, 505
leakage and obstruction after renal ischemia, structure-function study, 223
phosphate reabsorption in postnatal development of (abstr.), 526
proximal *t.*
amino acid transport in, 445
angiotensin II effect on (abstr.), 532
brush border enzyme activity in (abstr.), 532
isotonic fluid reabsorption in, effect of thyroidectomy on (abstr.), 336
luminal acidification in, mechanism of (abstr.), 529
morphology of, vs. thick ascending limb of Henle in rabbit, 144

Ultrafiltration
effect on plasma PTH (abstr.), 435
effect on PRA and adrenergic system (abstr.), 340
with high sodium dialysate (abstr.), 334
Urea
clearance, in peritoneal dialysis, 117
metabolism in hibernating bear, S-177
proteinuria induced by urea, new experimental model, 257
Uremia
aliphatic amines in, S-16
artificial kidney to treat, S-133, S-188
bacterial enzymes to treat, S-194
bone histology of hemodialysis patients with, 316
in children, S-65
amino acid and keto acid diet, S-83
with chronic renal failure, growth study, S-68
cyclic AMP and platelets in (abstr.), 532
diamine oxidase in, S-20
diet therapy
low-protein diets and bone disease in, S-79
protein and amino acid diets for, in rats, 472
early dialysis for, S-112
ectopic calcification in, treatment, S-86
enzyme induction in liver relating to, S-43
erythrocyte cation transport in (abstr.), 533
Federal Government's role in, S-61
gastrointestinal dialysis for, S-185
glycogen enzyme activity in (abstr.), 528
hemodialysis vs. transplantation in, S-91
hemofiltration for, S-145
hemolytic *u.*, HLA typing in (abstr.), 433
hyperphosphatemia in, antacids therapy, S-160
immunology of, S-49
and immunosuppression for kidney transplantation, S-95
Introduction to Symposium on, S-1
keto-analogues of amino acids to treat, S-181
lecithin-cholesterol acyltransferase activity in, S-26
and lipid abnormalities, S-72
lipid reduction in, by charcoal sorbent, S-170
metabolite adsorption in, with Ambersorb resin, S-163
middle molecule hypothesis, S-31

Uremia (*cont'd*)
role of PTH in, S-39
soma or psyche, S-2
sorbents for, via intestinal bypass, S-153
steroid sulfates in hemofiltrates of (abstr.), 529
survival with systemic diseases related to, S-55
toxicity of phenols in, S-13
toxins of, S-9
trade-off hypothesis of, S-5
urea metabolism in hibernating bear and, S-177
urinary erythropoietin activity in, compared in different therapies (abstr.), 337
vit. $D_3$ metabolism in, S-36
Uric acid
in stone formation, *See* Urolithiasis
Urinary tract
in analgesic nephropathy, morphology, 27
cancer of: relation to analgesic nephropathy, 107
congenital anomalies of, and HLA haplotyping (abstr.), 442
salmonella-induced infections of, (abstr.), 535
Urine
concentration and dilution, role of papillary structures at high rates of flow, 201
hepatitis B surface antigen in, in hemodialysis patients, 327
natriuretic factor in, during water immersion, 152
parameters of, in surf-ski marathon group (abstr.), 433
Uroepithelial carcinoma
analgesic nephropathy and, 27, 34
Urolithiasis
calcium-containing renal stones, 383
hypercalciuria with, and sodium cellulose phosphate therapy (abstr.), 434
hyperuricosuric calcium oxalate nephrolithiasis, 418
infrared analysis of (abstr.), 440
inhibitors and promoters of stone formation, 361
oxalic acid and the hyperoxaluric syndromes, 410
physico-chemical aspects of, 344
struvite stones, 372
Symposium on, 341–426
thiazides to prevent, 397
use of phosphates for calcareous renal calculi, 390

Vasodilators
effect on peritoneal dialysis clearances, 271
Vitamin D
in kinetics of muscle contraction, in rats, 189
serum concentrations of 25-OH-D in acute renal disease, 178
Vitamin $D_3$
in uremia, metabolic study, S-36

Water immersion
urinary natriuretic factor during, 152

X-ray, skeletal
in patients on hemodialysis, 316

# Table of Contents for Volume 13

## Number 1, January 1978


SYMPOSIUM ON ANALGESIC NEPHROPATHY

Introduction. *Priscilla Kincaid-Smith* ..... 1

Experimental renal papillary necrosis. *Elizabeth Ann Molland* ..... 5

Pharmacologic mechanisms of analgesic nephropathy. *Julian H. Shelley* ..... 15

Changing concepts in pathogenesis and morphology of analgesic nephropathy as seen in Europe. *Friedrich J. Gloor* ..... 27

Pathology of analgesic nephropathy: Australian experience. *Alastair Burry* ..... 34

Epidemiological study in Switzerland. *Ulrich C. Dubach, Bernard Rosner, Paul S. Levy, Hans-Rudolf Baumeler, Anton Müller, Anton Peyer, Thomas Ehrensperger, and Christoph Ettlin* ..... 41

Genesis of analgesic nephropathy in the United Kingdom. *Robin M. Murray* ..... 50

Analgesic nephropathy in Canada: Clinical syndrome, management, and outcome. *M. H. Gault and Douglas R. Wilson* ..... 58

Analgesic-associated nephropathy in the U.S.A.: Epidemiologic, clinical and pathogenetic features. *Thomas G. Murray and Martin Goldberg* ..... 64

Analgesic abuse and renal failure in Australasia. *John H. Stewart* ..... 72

Analgesic nephropathy: Etiology, clinical syndrome, and clinicopathologic correlations in Australia. *Ranjit S. Nanra, J. Stuart-Taylor, A. H. de Leon, and Kevin H. White* ..... 79

Radiological changes of renal papillary necrosis. *Nils Lindvall* ..... 93

Malignancies of the urinary tract and their relation to analgesic abuse. *Ulla Bengtsson, Sonny Johansson, and Lennart Angervall* ..... 107

ANNOUNCEMENTS ..... 114


## Number 2, February 1978


EDITORIAL REVIEW

Determinants of low clearances of small solutes during peritoneal dialysis. *Karl D. Nolph, Robert P. Popovich, Ahad J. Ghods, and Zbylut Twardowski* ..... 117

LABORATORY INVESTIGATION

Renal response to phosphorus deprivation in the isolated rat kidney. *Thomas H. Steele and Johnnie L. Underwood* ..... 124

Experimental renal infection: Acute and chronic studies of histology and function. *Richard B. Freeman, Thomas E. Murphy, Jr., and Craig D. Dickstein* ..... 129

Basal and stimulated rates of renal secretion and excretion of prostaglandins $E_2$, $F_\alpha$, and 13,14-dihydro-15-keto $F_\alpha$ in the dog. *Michael J. Dunn, Jean Francois Liard, and Fernand Dray* ..... 136

Shape of cells and intercellular channels in rabbit thick ascending limb of Henle. *Larry W. Welling, Dan J. Welling, and John J. Hill* ..... 144

CLINICAL INVESTIGATION

Presence of natriuretic factor in urine of normal men undergoing water immersion. *Murray Epstein, Neal S. Bricker, and Jacques J. Bourgoignie* ..... 153

Nephrotic syndrome in children: Prediction of histopathology from clinical and laboratory characteristics at time of diagnosis. *International Study of Kidney Disease in Children* ..... 160

Pre-eclampsia with the nephrotic syndrome. *M. Roy First, Boon S. Ooi, Wellington Jao, and Victor E. Pollak* ..... 167

Serum 25-hydroxyvitamin D and parathyroid hormone in patients with acute renal failure. *Jerzy Pietrek, Franciszek Kokot, and Jadwiga Kuska* ..... 179

ANNOUNCEMENTS ..... 188

Number 3, March 1978

LABORATORY INVESTIGATION

Changes in the kinetics of muscle contraction in vitamin D-depleted rats. *John S. Rodman and Thomas Baker* ..... 189

Urine concentration and dilution in the rat: Contribution of papillary structures during high rates of urine flow. *Manuel Martinez-Maldonado and Susan Opava-Stitzer* ..... 194

Contribution of chloride to the inhibition of plasma renin by sodium chloride in the rat. *Theodore A. Kotchen, John H. Galla, and Robert G. Luke* ..... 201

Tubular leakage and obstruction after renal ischemia: Structural-functional correlations. *John F. Donohoe, Manjeri A. Venkatachalam, David B. Bernard, and Norman G. Levinsky* ..... 208

CLINICAL INVESTIGATION

Early renal changes in hemizygous and heterozygous patients with Fabry's disease. *Marie-Claire Gubler, Gérard Lenoir, Jean-Pierre Grünfeld, André Ulmann, Dominique Droz, and Renée Habib* 223

Renal cortical blood flow and angiography in low- and normal-renin essential hypertension. *David B. Case, William J. Casarella, John H. Laragh, Deborah L. Fowler, and Paul J. Cannon* ..... 236

Glomerular C3 receptors in human renal disease. *Erna E. Pettersson, Atul K. Bhan, Eveline E. Schneeberger, A. Bernard Collins, Robert B. Colvin, and Robert T. McCluskey* ..... 245

## TECHNICAL NOTE

Urea-induced proteinuria: A new experimental model. *Janusz Sadowski, Paul R. Potvliege, Willy Gepts, Michel Staroukine, and Pierre P. Lambert* ..... 253

## ANNOUNCEMENTS

..... 257

## INTERNATIONAL SOCIETY OF NEPHROLOGY

Proposal for a new constitution and by-laws for the International Society of Nephrology ..... 259

Number 4, April 1978

## LABORATORY INVESTIGATION

Study of chemical sympathectomy in endotoxin-induced lethality and fibrin deposition. *W. Kline Bolton and Nuzhet O. Atuk* ..... 263

Effect of hypertonic dialysate and vasodilators on peritoneal dialysis clearances in the rat. *Edwina A. Brown, Alan S. Kliger, John Goffinet, and Frederic O. Finkelstein* ..... 271

Glomerular filtration of proteins: Clearance of anionic, neutral, and cationic horseradish peroxidase in the rat. *Helmut G. Rennke, Yogendra Patel, and Manjeri A. Venkatachalam* ..... 278

Mechanism of blood pressure reduction by teprotide (SQ 20881) in rats. *Philippe Jaeger, Roger K. Ferguson, Hans R. Brunner, Ernst J. Kirchertz, and Haralambos Gavras* ..... 289

Microangiographic evaluation of the effects of heparin on progressive Masugi nephritis. *Yasushi Nakamoto, Kazuhiro Dohi, Hugo Fujiike, Takehisa Yuri, Akira Shinoda, and Jugoro Takeuchi* ... 297

## CLINICAL INVESTIGATION

Electroencephalographic and radionuclide studies in dialysis dementia. *Sakharam D. Mahurkar, Lee Meyers, Jr., Jerome Cohen, Radhakrishna V. Kamath, and George Dunea* ..... 306

Skeletal X-ray findings and bone histology in patients on hemodialysis. *Eberhard Ritz, Pedro Prager, Burkhard Krempien, Jürgen Bommer, Hartmut Horst Malluche, and Heinrich Schmidt-Gayk* ..... 316

Hepatitis B surface antigen in urine of hemodialysis patients. *Michael R. Hourani, Gilbert H. Mayor, David S. Greenbaum, David O. Hugget, and Maria J. Patterson* ..... 324

## ABSTRACTS

Italian Society of Nephrology, September 13–15, 1977 ..... 329

Dutch Society of Nephrology, November 26, 1977 ..... 335

## ANNOUNCEMENTS

..... 339

Number 5, May 1978

## SYMPOSIUM ON UROLITHIASIS

Introduction to Symposium. *Charles Y. C. Pak* ..... 341

Physicochemical aspects of urolithiasis. *Birdwell Finlayson* ..... 344

Inhibitors and promoters of stone formation. *Herbert Fleisch* ..... 361

Struvite stones. *Donald P. Griffith* ..... 372

Calcium-containing renal stones. *Lynwood H. Smith* ..... 383

Use of phosphates in patients with calcareous renal calculi. *William C. Thomas, Jr.* ..... 390

Prevention of calcium stones with thiazides. *Edmund R. Yendt and Moussa Cohanim* ..... 397

Oxalic acid and the hyperoxaluric syndromes. *Hibbard E. Williams* ..... 410

Hyperuricosuric calcium oxalate nephrolithiasis. *Fredric L. Coe* ..... 418

## ABSTRACTS

South African Renal Society, October, 1977 ..... 427

French Society of Nephrology, November 5, 1977 ..... 434

Canadian Society of Nephrology, January 25–28, 1978 ..... 438

ANNOUNCEMENTS ..... 443

Number 6, June 1978

## LABORATORY INVESTIGATION

Micropuncture studies of the transport of individual amino acids by the Necturus proximal tubule. *Donald E. Oken and Manfred Weise* ..... 445

Renal micropuncture study of normotensive and Milan hypertensive rats before and after development of hypertension. *Philip G. Baer and Giuseppe Bianchi* ..... 452

Prolonged complement activation in mice. *I. J. Simpson, J. Moran, D. J. Evans, and D. K. Peters* . 467

Effects of protein and amino acid diets in chronically uremic and control rats. *Alfred J. Pennisi, Marian Wang, and Joel D. Kopple* ..... 472

## CLINICAL INVESTIGATION

Histology of human tubulo-interstitial nephritis associated with antibodies to renal basement membranes. *Giuseppe Andres, Jan Brentjens, Romesh Kohli, Ronald Anthone, Sidney Anthone, Tadla Baliah, Mario Montes, Basab K. Mookerjee, Anthony Prezyna, Marion Sepulveda, Rocco Venuto, and Charles Elwood* ..... 480

Goodpasture's syndrome: An analysis of 29 cases. *Clinton A. Teague, Peter B. Doak, Ian J. Simpson, Stephen P. Rainer, and Peter B. Herdson* ..... 492

Radioimmunoassay for urinary renal tubular antigen: A potential marker of tubular injury. *Richard A. Zager and Charles B. Carpenter* ..... 505

Reduced renin activity in essential hypertension: A re-appraisal. *Gwynne W. Thomas, John G. G. Ledingham, Lawrence J. Beilin, A. Norman Stott, and Kay M. Yeates* ..... 513

Hereditary polycystic kidney disease (adult form): A microdissection study of two cases at an early stage of the disease. *Luc Baert* ..... 519

ABSTRACTS

The German Society, September 28 to October 1, 1977 ..... 526

The Swiss Society, December 3, 1977 ..... 534

ANNOUNCEMENTS ..... 540

INDEXES ..... 542

Number 6, June 1978, Supplement No. 8

Proceedings of a Conference on
UREMIA: FORMULATIONS AND EXPECTATIONS
Capri, Italy, August 31-September 2, 1977

Introduction. *Eli A. Friedman and Carmelo Giordano* ..... S-1

Uremia: Soma or psyche. *George E. Schreiner and Charles Tartaglia* ..... S-2

The trade-off hypothesis: Current status. *Neal S. Bricker and Leon G. Fine* ..... S-5

Uremic toxins. *Jonas Bergström and Peter Fürst* ..... S-9

How toxic are phenols? *E. Nigel Wardle* ..... S-13

Importance of aliphatic amines in uremia. *Michael L. Simenhoff, J. J. Saukkonen, James F. Burke, Russell W. Schaedler, Wolfgang H. Vogel, Kenneth Bovet, and Norman Lasker* ..... S-16

Diamine oxidase in renal failure. *Joel D. Kopple, Chick Fai Tam, Marian Wang, and Marian E. Swendseid* ..... S-20

Lecithin-cholesterol acyltransferase (LCAT) activity in chronic uremia. *G. F. Guarnieri, M. Moracchiello, L. Campanacci, F. Ursini, L. Ferri, M. Valente, and C. Gregolin* ..... S-26

A defense of the middle molecule hypothesis. *Jean-Louis Funck-Brentano, Georges A. Cueille, and Nguyen K. Man* ..... S-31

Controversies regarding uremia and acquired defects in vitamin $D_3$ metabolism. *Louis V. Avioli* ... S-36

Role of parathyroid hormone in uremic toxicity. *Shaul G. Massry and David A. Goldstein* ..... S-39

*Table of contents*


Enzyme induction in the uremic liver. *Heinrich W. Leber, Ludwig Gleumes, and George Schütterle* S-43

Immunological aspects of chronic uremia. *Carlo U. Casciani, Claudio De Simone, Sergio Bonini, Messimo Taccone Gallucci, Giuliana Matteucci, Guido Valesini, Daniela Meli, and Cesare Masala* S-49

Survival in uremia due to systemic diseases. *Morrell Michael Avram* ..... S-55

The Federal Government's role in management of end-stage renal disease. *Benjamin T. Burton* ... S-61

Characteristics of renal insufficiency in children. *Malcolm A. Holliday* ..... S-65

Growth in children with chronic renal failure. *Karl Schärer* ..... S-68

Lipid abnormalities in maintenance dialysis patients and renal transplant recipients. *Claudio Ponticelli, Gianluigi Barbi, Alberto Cantaluppi, Carlo Donati, Giorgio Annoni, and Diego Brancaccio* ..... S-72

Low-protein diets and bone disease. *Ernico Fiaschi, Giuseppe Maschio, Angela D'Angelo, Ermanno Bonucci, Nicola Tessitore, and Piergiorgio Messa* ..... S-79

Amino acid and keto acid diet in uremic children and infants. *Carmelo Giordano, Natale G. De Santo, Rasario Di Toro, Maria Pluvio, and Laura Perrone* ..... S-83

Treatment of ectopic calcification in uremia. *Pietro Zucchelli, Maurizio Fusaroli, Luigi Fabbri, Piero Pavlica, Silvia Casanova, Giuseppe Viglietta, and Mauro Sasdelli* ..... S-86

Selection of hemodialysis versus cadaveric transplantation. *Henri Kreis* ..... S-91

Trends in immunosuppression for kidney transplantation. *Khalid M. H. Butt, Cecile M. Zielinski, Ismail Parsa, Alfredo J. Elberg, William Wechter, and Samuel L. Kountz* ..... S-95

Donor pretreatment in an unselected series of cadaver renal allografts. *Ronald D. Guttmann, Douglas D. Morehouse, Jonathan L. Meakins, John Klassen, Juergen Knaack, and Jean-Guy Beaudoin* ... S-99

Thoracic duct drainage and antilymphocyte globulin for renal transplantation in man. *Jules Traeger, Jean-Louis Touraine, Jean-Pierre Archimbaud, Marie-Christine Malik, and Jean-Michel Dubernard* S-103

A theoretical definition of minimal acceptable dialysis therapy. *Frank A. Gotch and John A. Sargent* S-108

Early dialysis in renal substitutive programs. *Vittorio Bonomini, Alba Vangelista, and Sergio Stefoni* S-112

Renewed interest in chronic peritoneal dialysis. *Dimitrios G. Oreopoulos* ..... S-117

Optimal dialysis frequency and duration: The "unphysiology hypothesis". *Carl M. Kjellstrand, A. A. Rosa, J. R. Shideman, F. Rodrigo, T. Davin, and R. E. Lynch* ..... S-120

Combined technological-clinical approach to wearable dialysis. *Robert L. Stephen, Stephen C. Jacobsen, Carl Kablitz, and Willem J. Kolff* ..... S-125

Two new concepts that might lead to a wearable artificial kidney. *Perry L. Blackshear, Jr.* ..... S-133

A resin-sorbent system for dialysate regeneration. *Carmelo Giordano, Renato Esposito, Pierino Bello, and Ernesto Quarto* ..... S-138

Hemofiltration. *Lee W. Henderson* ..... S-145

Preliminary studies with locust bean gum: A new sorbent with great potential. *Hippocrates Yatzidis* S-150

Roux-Y intestinal bypass for administration of sorbents in uremia. *Anna Sinclair, Charles F. Babbs, Dee D. Griffin, and Stephen R. Ash* ..... S-153

Maximizing phosphate capacity of aluminum-based gels. *Robert E. Sparks, Norbert S. Mason, W. Ernest Rutherford, and Eduardo Slatopolsky* ..... S-160

Isothermic and kinetic studies of uremic metabolite adsorption with Ambersorb XE-344 resin. *James D. Bobeck, John J. Cipoletti, and Mel Wexler* ..... S-163

Charcoal-induced lipid reduction in uremia. *Eli A. Friedman, Eben I. Feinstein, Monica M. Beyer, Robert S. Galonsky, and Sondra R. Hirsch* ..... S-170

Urea metabolism in the hibernating black bear. *Ralph A. Nelson* ..... S-177

Keto-analogues of essential amino acids in the treatment of chronic renal failure. *Mackenzie Walser* S-180

Gastrointestinal dialysis in the therapy of uremia. *Tze-kong Young and Shih-ching Lee* ..... S-185

A compound artificial kidney without dialysis: An analysis of remaining problems. *Elias Klein* ... S-188

Bacterial enzymes in uremia management. *Kai Setälä* ..... S-194